THE TIMES Higher Education

cution in Reguling.

versity courses.

able in the daythure.

The agreement with Bulmershe

will make it possible for students

to earnal for morses of the college

alongside or instead of Open Uni-

The range of subjects so far in

cluded in this anique scheme-must

of which have a practical or performing bias-cover physical educa-

cation and spart, film and drama, art, music, French and German. Similarly, Bulmershe statients will be able to take Open University courses, in place of parts of their Council for National Academic Awards programme. Some of these courses will inlinity only be avail-able in the daytime.

callan programmes at linershe, while Bulmershe students un these programmes will he uble tu transfer to the OU BA degree,

Aithough crailli transfer agree

meuts have been reached between ilie OU and the Universities of Kem, Saiford, Lancuster and Sus-aex, this is the first time un institu-tion whose courses are validated by the CNAA has been invulved. The univarsity is an present holding getteruit discussions with the CNAA

SRC adopts new policy to help PhD diversity

adopted a new postgraduate grants policy which will actively encourage aught courses, apiltude ussess-training. training. "The changes should be intro-

"The changes should be intro-duced huto our support of past-graduate retaining of the fusion out of the fusion of the compatible with the maintenance of high standards", the SRC says. The council feels than its newer schemes to encourage broader train-ing and oendemic/employer collabo-ration, notably the Cooperative Atomids have helped to increase the variety of postgraduate education. The devaloptment of such schemes, including the joint venture in multi-disciplinery training with the Sneith Science Resonreit Council, will be continued.

Science Resourch Council, will be continued. The idea that PhD ewards should not be extended to the final two years without a formal renort on the student's nptitudo reinforces a similar auggestion made by the Com-mittee of Vice-Chaucellors and Prio-cipals recound. The SRC wants the level of post-graduate awards to be reluted to

hy Clive Cookson science correspondent The Science Research Council has between the current level of pos-

The Government's abdition of the

The four-puint agreement also practiles for OU students to transfer their credits to first-yuar degree level and Diplaum in Higher Edu-

regional in-service training OU in course exchanges by Judith Judd

by Judith Judd The regional accanization of in service training is macked by astonishingly wide disparity of practice and lack of continuction, according to a paper for next weeks meeting of the faverance of the factor of these are said to in the factor of the factor Must limit their are validation and to the in-polytechnics are build to the Regional Advert as their coordination is in half of the eight is A major development in credit transfer will allow Dpen University students to take degree courses outside the university's corriculum at llulmershe College of Higher Edu-

Training of Tenchers, Eren sn, 'some involved in in-service training fred it does not fully reflect the "shouthes" of regional arganization since the responsibility for training was removed from the Area Training (transizations) trganizations.

The paper, prepared by a member of the inspectnetic and presented to the sub-committee on induction and in-service training, points unt that the dispurity of practice is remarkhle. Even when the hest practice s observed, few committees whose remit extends heyand the funant-uries of a single validating body would chaim to be able to serve effectively as nore than a useful meeting ground for exchange of information and perhaps the plan-ning of regional courses under the ATD/DES label".

commutices have been my pendent of any special comment on ATO/DES as wher courses. Yet another strand is part

in half of the eight

in teacher education.

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areas. Even in

CITITIZES

Landau and the Rose b

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Eaghand the RAC paters

Grants moratorium lifted

The moratorium on Science Research Council groms, imposud during last October's cost crisis, is baing lifted and 340 research grauts heid up will be announced shortly. The brood financial position is now cleer, the SRC stys, though details of the 1977-78 budget line Governmont etade o decision un the troatoneut of future exchange wariationel subscriptions—lust year's

Keele makes no promises about

redundancies

by Frances Glbb

Keele University has warned that it cannot promise to avoid staff re-diindancias because of economies to be effected next year.

be effected next year. A roport of the expenditure reviow committee, set up to meke aovings in the recurrent budget for 1977/78, says: "There comes o point in an organization, 75 per cen; of whose costs are salarias and woges, when the maximum possible aevings in other itenta have been made oud ere perheps still nnt enough. We hope this poln; may not be reached but ceunot give any guarantee." The present policy is to economize, by freezing vocancies as they arise; by voluntery early retirement, and in only the last resurt by redun.

only the last resurt by redun-

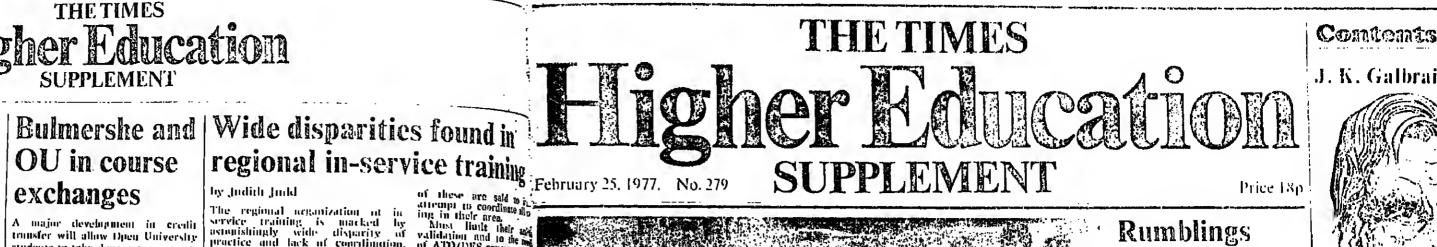
At present frozen posts are saving E34,000, If it is hecessery the con-thrup the france, the complitue warne, staff may be required to transfer between departments. This possibility was raised recently also by Dc. J. A. Pone, vice chanceller



The photographs of Frank Mendow Suicliffe are featured in the second end latest edition of History Workshop, a journal of socialist historians. The photography above shows the "Diamont" of Scurborough, nwned by Cantain, William McLeun, unloading coul. The journal also lucindes articles of Wonth in Germany, 1928-1940, by Tim Mason, and militarian in Beltain batore the Great War by Anne Summers. The journal 18-available from bookshops, price 13,45.

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comment in ATO/DES or Jolly builting weather as Oxford sweat h out in preparation for the hoat race on Murch 19. Bryan these do not take pertited Davies, MP, however, wonders if the sporting balance in our universities is wrong, page 5.

over top science jobs David Dickson

For the first time in 10 years, the Science Research Francil is not likely to have a physicist as 09 chairman, when Sur Sam Edwards retires from the post in Retoler. The two main contenders to suc-rred him are Professor Group of Allen, professor of polyner is rences in the department of chemical re-govering and chemical technology a Imperial Eddlege, London, and Pratessor Ronald Mason, professor of chemistry of the Doiversity of Sussex. Both Sir Sam and his pre-decessor, Sir Urion Flowers, are physicists.

physicists. f.ast wheek an editorial in Nature attacked the secrecy surrounding the oppointment of individuals to segior pasts in the scientific com-manity, contrasting the situation in Britain to that in the United States, where the relative morits of different condulates are widely dis-cussed before such au appointment is mode

"There seem ways in which the uppolument of a few of Britain's tup science policymakers could be coupled with much more open consultation, so that the name is not greeted with expressions of com-plete ignorance", the leader com-

tarch of the two main contende has considerable SRC experien-and hos heon actively engaged a turning the council's research to wards more applied fields. Professor Allen has been on its englueering been data Allen has been on its engineering board since 1973, and is chairman of the materials science and technology comminee.

Professor Masoo was chairtoon of the science bound front 1972 until 1975, and had previously been chair-man of the chemistry consulttoo.

The Nature contents of content to. The Nature collocital comments that the post of SRC clustering does not have great oppend for those who have already made their name ou the scientific/political scene, and adds thut it is "stronge that one or two of those to whom early feelers want out were peuple exactly in this cutogury".

It is understood that It is understood that anong thise in this category approached by the Department of Education and Sci-ence have been Sir Michnei Swnun, diroctor of the BilC and a member ni the SRC council from 1970 until 1973, ond Profossor Sir Hons Korn-berg, chairman of the Royal Com-nuisatou on Euviconmental Follution, nn SRC member from 1967 to 1972.

A strong candidate has been Pro-feesor Morria Suden, a physical chomist who was chief executive of Shell Research Ltd., from 1974 to 1975, and rapresented the computy on the SRC's chemistry committee from 1970 to 1974:

by Sue Raid A working party has been set up to investigute wuys of eathblishing a national forum of polytechnic governing bodies to act as o strong cumiler to the growing newer of the SRC chairmanalile, which is a Natural bistory full-time appolotmont

A manufacture service is also provide ser



Michael Binyon talks to Professor Galbraith in the first of four profiles of leading American intellectuals, 6-7

The Golden Bough

Sir Edmund Leach assesses the reputation of Sir James Frazer, whose famous work has just been republished, 17

Engineering leadership

Graduate engineers should be more widely recognized as industrial innovators argues Dr. A. J. Pope, 12

Victorian dons

M. R. D. Foot reviews The Lights of Liberalism a new book on Liberal dons in nineteenth century Oxford, 19

School examinations A plain man's guide to

proposals for reform, 9

Psychology ·

Anthony Clare, Johanna Turner, and Roger Holmes. are among the contributors. to five pages of reviews of new books, 21-25

Clive Cookson visits the new-style Natural History Museum, 6

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On thu other	r ha	nd			
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Letters					. 10
Noticeboard					1
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The paper gases on to say that a very great deal of time is being spent, often by the same people says that 18 ATD coan mitnees still have some function in his service training lut only ten to the same people to ensure that adding ten and to callege start and teachers. The paper gases on to say that a special of time size committees between the function of securities and teachers. The paper gases on the same people says that 18 ATD coan mitnees still have some function in his service training lut only ten the same people sore in the proposal to remove the function of securities and teachers. The paper gases on the securities and teachers in the proposal to remove the function of securities and teachers. The paper gases on the securities and teachers in the paper gases on the securities and teachers. The paper gases on the securities and teachers in the securities and teachers. The paper gases may that the transfer it is regional or subregional securities and to transfer it is regional or subregional securities and the securities and the securities and the securities and teachers. The paper gases on the securities and teachers in the securities and teachers. The paper gases on the securities and teachers is the securities and teachers in the securities and teachers. The paper gases on the securities and teachers is the securities and teachers is the securities and teachers. The paper gases on the securities and teachers is the securities and teachers is the securities and teachers. The paper gases on the securities and the securities and teachers is the securities and teachers. The paper gases are set to an antipolation securities and the securities and the securities and teachers. The securities and teachers and teachers and teache <text><text><text><text><text><text><text><text><text><text><text>

Common exam 'threat to entrant standards'

hy Judith Indu

Proposals for a common examina-tion at the age of 16 are the clearest threat so far signalled to the unisuccar so far signalled to the uni-rensities. Mr Bryon Thwaites, prin-cipal of Westfield College, London, suss in the college's anomal contents take." suys to the conege's annual report. Despite internality about the point The effect of a common examina-tion on school corricula would members of the Schools Conneil result in a forther decline in the bendemic standards of university entrants, he says. Already they were discernibly less well-prepared for entities that "cure for induces the context that "cure for university courses than their must be laken to ensure that special predecessars of only ten years ago. for university courses than their finds be inten to observe that special predecessars of only ten years ago. "More regrettable, perhaps, than the declino in objective standards will be an erasion of tho academic under atianal attitude without which sudents at university find their sudents at university find their sudents makers in the attitude without which their sudents at university find their sudents makers in the attitude without which their sudents at university find their sudents makers in the attitude without which their sudents makers and publicless."

will see the minimal mismatch he-will see the minimal mismatch he-will see the minimal mismatch he-week sixth form output and first-year intake, especially in the neer-provision of science places, leading to cut-throat competition. The universities were an the defensive and there should be vigur-toas collective action. He cults for an inquiry into all aspects of higher to been warned. Ara we going to heet the worning?" Ile notes that the Schoals Coun-cil is equivacal in its recommenda-tion af the common axantination. "It oscillates uneasily between a "Briefing"—page 9.

single organizational structure (examinations which could embrace

Discretionary awards check on "We are concerned, of course, that a third year of filling vacand

week. In a speech to the Assucia-tion of Drama Students' conference at Ealing he said he had been told by Mr Oukes, Minister of Stato for Higher Educotion, thou ufficials wero writing to local untharities to arrange discussions with thom.

ir construction with them. "When I first raised this matter in n speech at Leieestor Polytechnic I said that I thought the discrotion-and locol government to consult together. I was coreful not to ask for increased expenditure and I fortherming academic year.

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The Gavernment has agreed to was careful to accept that educa-look into the discretionary awards that has to take its share of the system. Mr William van Strauhen-economies." zee, MP for Wakinghan, said this file applanded Mr Oakes's initia-work by a constituent state the state of the st

Lakes & mountains in springtime

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Gatwick : 7 olgits and 14 nights in Sected at the Hotel Kur, departing ISih, 22nd and 29th May. 7 nights from £113 p.p. to £118 p.p., 14 alghis from £168 p.µ. to £177 p.p.

Switzeriona Latao: 7 aod 14 nights in Wilderswil at the Hotel Bdreo, departing 7th; 14th, 21st and 28th May; 7 nights from \$14, 9.9, (18), 10, (120, P.D. (18), 14 nights from \$183 p.p. (18), to \$188 p.p., (18). Gotwick : 10 nights in toterlaken at the Hotel Royal St. Georges, departing 26th May, £174 p.p., Luton : 7 and 14 nights io Tajerlaken et the Hotel I on 7th, 14th, 21st and 28th May, 7 nights from £122 p.p. to £128 p.p.,

14 nights from £196 p.p. to £201 p.p. SCENE AND CITY TOURS Scenic Switzerland Luton : 7 olgans, departing 7th, 14th, 21st and 28th Mdy. From £144

Switzerland to Soomertione

Luton : 7 nights, departing 7th, 14th, 21st and 28th May, Prom £141 p.p. to £152 p.p.

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Don't let cuts hit intake Hunter urges

Universities should make every effort to take the largest number suitable students they can reasonably induct over the next few years, despite the car hack in re-sources. It Robert Honter, vice-chancellor of Birmingham Duivers

chancellor of Birmingham Duiver-sity has arged. Writing in the university's 1975-76 annual report he says: "We nust maintain our teaching span-dards while still rundming in take must sudents. It scons wrang that a generation should be denied edu-citianal optiorimity because of circitianal opportunity liceunse of cir-cumstances beyond its control." Research work would have to be

done more discriminatingly and with less research conneil support and, perhaps, with departments concontrating their activities on less rostly areas. Efforts had to be intensified to develop good but cheaper teaching methods and other use had to be made of all categories of staff. Universities now had to prepare

for the consequences of high tuition fees, the reduction of couldment grants, the virtual disappearance of the capital building programme, the reduced level of recurrent grants and the available of the reducent grants and the predicted cut resources in real terms in 1978.

posts on an emergency basis could have n'stew' effect on our work. have a 'stew' effect on our work. Formulately it is proving less damaging than was feared. Some-times it is possible to leave a post unfilled for a year or two by rearranging staff duties but then it really becomes necessary to fill the way? the past,"

the post." In other circumstances it was possible to dispense with some pusts completely but everyane at the university haped that circum-stances would not become so grave that savings of a greater order would be necessary. Staff custs represented 75 per cent of the budget not must possible economies had alrendy been mode.

Mrs Williams asked to kill sacred cows

by Peter Williy

The need for a less specialised rurricolum in the secondary schools, the vital importance of inservice teacher training and the problems of finding more money for discustionary grants were among the must promotion issues in the first of the Goreraniem's series of education conferences, held in Newcastle upon Tyne last week.

The discretionary grants issue was rulacit, first, by Mr Charles Vare was president of the National Union of Students and, later, by Mr Eric Robinson, prioripal of Breatford College, who attended the conference us a representative of the Equal Opportunities Commission.

Mr Rubinson demanded of Mrs Shirley Williams, Secretary of State for Education and Science: "Are yan willing to slangher sarred cows, particularly in the academic and antonomous trudition?" He puinted out that mue effect of the pumeet ont mat nue effect of the current grants system was than wamen henefited proportionately mare from discretionary grants. Yet discretionary grants were being cut back.

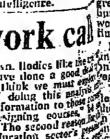
"If we are to see that women get more", said Air Rabinson, "men must get less. If the descritionary people get more, the people on man-datory grants get less. Are you pre-puted to take migh decisions like that? Has your department the

At the end of the conference Mix-Williams indicated that she was prepared to tace this difficult choice.

Mr Robinson's challenge came in Mr Rohmson's channenge rame in the section derived to school and working life Despite the wide-ranging agenda some of the 200 delegates were still not satisfied with its scope. Mr Bar Tearr, representing the National Associa-



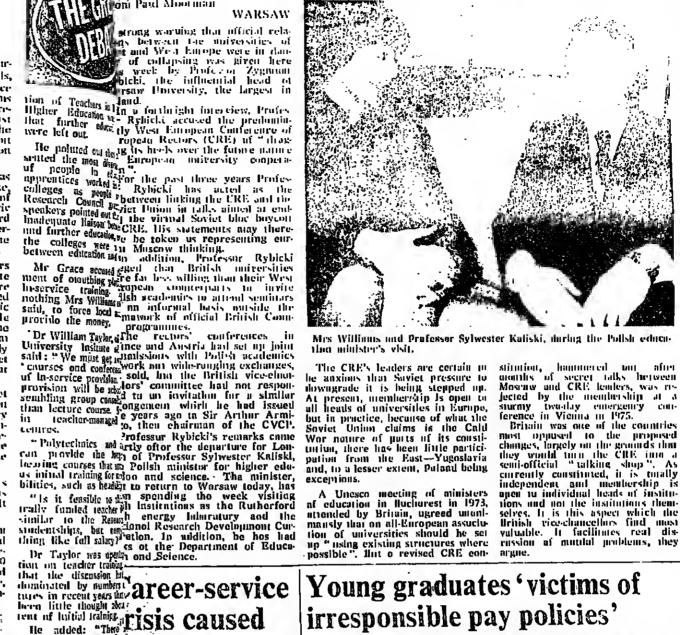




East-West university relations in jeopardy ILEA move

oni Paul Moorman WARSAW

strong worning that official celastrong worthog that inficial rela-ity between the universities of and West Europe were in dan-of collapsing was given here week by Professor Zygmun bleki, the influential head of resaw Borversity, the largest in



Mrs Williams and Prafessor Sylwester Kaliski, during the Pollsh educa-

The CRE's leaders are certain to he anxious that Switct pressure to howngrade it is being stepped on. At present, membership is open to all heads of universities in Europe, but in practice, because of what the Soviet Union claims is the Cald Wor nature of parts of its consti-tution, there has been little partici-pation from the East-Yugoslaria and, to a lesser extent, Paland being exceptions.

exceptions. A Unesco meeting of ministers af education in Hucharest in 1973, intended by Britain, ugreed unant-manusly that on all-Enropean assuch-tion of universities should he set up " using existing structures where possible". Hut o revised CRE con-

Type descripts. Protocology Pylarity complement that the CBL is note that and profiles at structure had for these satisfies become poor of brogally be early

provide and you can be report on thirds a build make a second provide the recent of the by Judith Judit evidentials the consistence of the probability funded by funders in Belgrade to restory implies. The decision of the base bondon mentation of the resolutions of the Education Analysis to put the Belsinky conference on European prime of funders frames back into

Professor Rybielts toosa version pathong rungges wante tooogne may be demued that the Noviet Finon way is were saved. Some factories from that members barropeut universities organization. In Albert Stamm, view barreller of the Foother and Wrigher Education of the second statements is Sint Committee where will make the for heave the CDU cost a most press is Sint Committee where to be will make the former of a CDU cost a most press is Sint Committee and Argher 50 may take the second statement of the second barrow of the second sec

of Process interestions of Deta Direct Grand decision on March 9 may take decision for the URL and a member of the what they contact to be an "emo-tional" view because of pressure from threatened colleges. At a meeting between college rep-

bad given to look for new ways to create a more broadly based organization. "Since 1974 president land, wig Ralser, from Cermany, hus taken every apportunity to continue the color from the Polytechnic of North London said it was diumayed at the delay to the decision. The polytechnic of North London said it was diumayed at the delay to the decision. The polytechnic's education in the decision. The polytechnic's education the polytechnic of North London said it was diumayed at the delay to the decision. The polytechnic's education and proved its flexibility and attracted students who would be able to give advantages to the polytechnic students have proveed by products of manutechnic institutions.
 Poly sit-in over move the school of sociol sciences to a new the reputation is school of sociol sciences to a new the school of sociol sciences to a new the polytechnic takes over the site of Balls Park Collego of Education in Heriford, due ta close in line where the atter polytechnic such as a single atter polytechnic takes over the site of Balls Park Collego of Education in Heriford, due ta close in line where the atter polytechnic such as a single atter bas polytechnic such as a single atter bas polytechnic such as a single atter polytechnic such as a single single polytechnic such as a single atter pol

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puts teacher training back the are particular, such that the in melting pot

remney the unknow por has rened alarm Professor Rybiel is however trunt announ rulinges which thought they

At a meeting between college rep-At a meeting between college rep-sof European university cooperation. "The record of the CRE is enough ta show that this statement is no-true. During my own period of presidency, we extended the mem-hership by maining a number of initial the socialist coun-tries. Breat effort was non-into thon and we were successful. "The General Assembly in bolown in 1974 book the initiality in tables are the control of the control of the control of the socialist of the mem-tries. Breat effort was non-into thon and we were successful. "The General Assembly in bolown in 1974 book the initiality in tables are the control of the control of the control of the socialist of the control of the control of the control of the and we were successful. "The General Assembly in the of the control of the control of the control of the socialist of the control of the control of the control of the socialist of the control of the control of the control of the socialist of the control of the control of the control of the socialist of the control of the control of the control of the socialist of the control of the control of the control of the socialist of the control of the control of the control of the socialist of the control of the control of the socialist of the control of the control of the control of the socialist of the control of the control of the control of the socialist of the control of the control of the socialist of the control of the control of the control of the socialist of the control of the control of the socialist of the control of the control of the socialist of the control of the control of the socialist of the control of the control of the socialist of the control of the control of the socialist of the control of the control of the socialist of the control of the control of the socialist of the control of the control of the socialist of the control

and we were successful.
"The General Assembly in Bologan in 1974 took the initiative or go very much further, and h was agreed minimusly that the statutes would be revised if they were an obstacle to people joining."
Dr Shamm also dealed that the CRE was reneging in promises it bad given to look for new ways to create a more broadly based organi-zation. "Since 1974 president Lan-wig Ralser, frum Germany, has alker every apparinging the member-the policy of extending the member-

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Device gives quick spectrum check

by Clive Cookson srieure correspondent

cals are mixed very rapidly by the in measure the spectrum accurately conventional "stopped flaw" tech only at the end of a fast reaction, afgue. The instrument then Accurate monitoring of the reac-

srience correspondent
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The specification far the Instrument is something a powerful new matchine that pranises to give researchers new insights into the somethin a thousandth of a second.
The specification far the Instrument is spectra are recorded on a photograph as a series of classly speced dots rather thon a comparing the School of Chemical Sciences in UEA. It was designed and huits by Applied Photophysics Ltd 16 company owned by the Royal lastitions).
Sohuisns of the reactant chemition mechanism. In the past it has been possible to 1,000mm range).

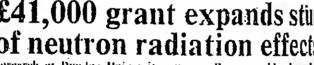
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Isles of northern research

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Tenement project could he both city and single people Not his lunch pines



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Soven retired miners, aged he enable the computer of tween 70 nml 80, who have all feal the matching process of sorvice, have already taken paor.

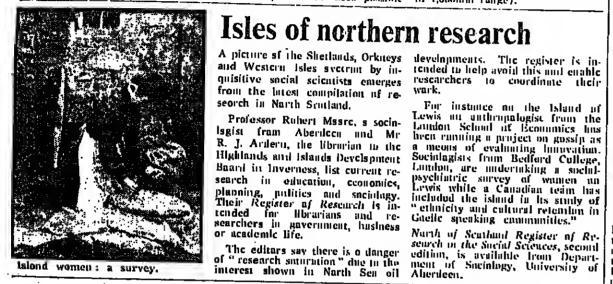
New handbook on foreign institutes

The British Academy has published o new handbook giving details of the nine research institutes which it supports ovorseas. These range from the British Institute in Castern Africu tu the Ilritish School of heve been founded since 1986 to promote research its archaeology, humanitics. The liandbook is available from the British Arademy, Burlington ONS. Hered and Operations (1997) Institute (199

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How men at 10% make decisions.

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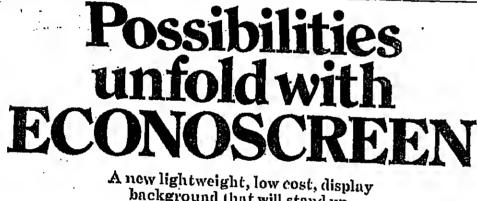
island women : a survey.

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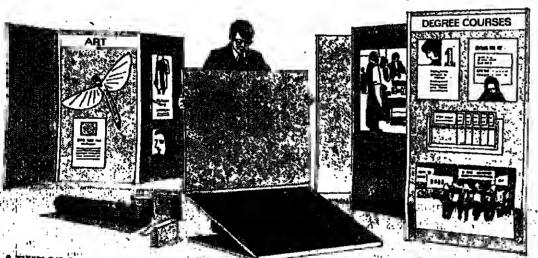
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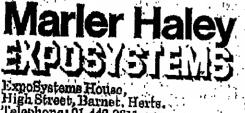
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by Frances Gibli
 by Frances Gibli
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It is iranic really", he says. It Want and his received "I wrote e setting af 'Hail Haly were transferred to Book Queen' ag a devational work for the Rupted Kingdon t the Rumon Cathalle Church. It Energy Anthonly in 1995 is poisoned by wine in his chalice, writy's Ahlermation suppoint is poisoned by wine in his chalice, writy's Ahlermation suppoint is discussion. I now earn a small It as disgusting. I now earn a soull hving fram it which enables mo to get on with my work full time."

to get on with my work full time." With his new-fnund freedom he is composing n Queen's Jublice morch, e musicel study of London and "The Carolen Sulte" which, in caso any horror movio magnle are interested, gots its first British parformance ot 7.30 tomarrow evening at St John's United Roformed church, Sameraet Rond, New Barnet, undar the auspices of the Association for British Music.



De Sponner and "Frank"

Book of revelation?

The Bishon of Kingstan upon Thomes and a theology lecturer found a novel way to spend Christ-mas this year: they started editing s book on the future of nuclear fast breeder reactors.

fast breeder reactors. ^h It may scen a bit unusus!", explained the lecturer, Dr David Gasling af Huli University's thea-lagy deportment. "But I em a former unclesr physicist myself and the bishop is Hugh Mantefiore whu, es a formor dean of Caius Callege, Cambridge, has shawut e great in-terent in scleuca. We sre both moinly concarned with the conse-quences af fust breeder reactars for quences af fust breeder reactars far the cammunity.

Last year the Warld Council af Churches and the Church of Scut-land urged the two of them to arganice public hearings on the subject. Scientists, laynen and Mi Bein, the Energy Ministar, gave their views upon which they were publicly crass-examined by s panel of specialists. of specialists.

of specialists. This was recorded inta 10 haurs of type which Dr Gosling and the bishop have edited into 100,000 words. "Mr Benn wanted the bnak published us saan as passible an there enald be e full public debate on the taple befare he hed to make e finol decision on the

give science a broader concest the their ranght physics at the 15m versity of Delhi for from years before going to the religious studies department at Lancaster and their train

Run, rabbit, run

"Even a rabbit can be improved if he wears the right shoes ", said ht Vaughar Thomas, head of Liverpool Polytechnic's physical education de-partment which runs the country's first complete honorts degree in sparts science. "Yes, a tabhit: someono wha is useless of sport."

As a rabbit myself (games days generally involved being sem up to the Downs with a small my called Pinkerton to kick o hall sround desultorily until such time as we

debate on the tapic befare he hed to make a final decision on the matter. "Wa had five woeks ta erranga the conforance and edited the tapes between Christmes Sundey and the firat day of treeding (Prism Press, E6 clath, £2.50 paperhack), will be evailable on March 5. Dr Gosling's coreer started of Msnchester Univorsity where ha did research into nucleer reactioo. "After three yeers 1 feit that physics wes producing infarmatian in a very narrow eron. So I did a theolugy negree at Cambridge to

understanding. Shokira's "awereness" sinted with D. H. Lawronce, whose tedious influence is nfien at the root of this, and was then furthored by dinity comprohended indiou medi-tetion tschniques. In no time at all she discovered o sinp solling long gipsy dresses and has not lookad back since. She is into "relation-ships", particularly oues that go wrong oud can be talked about ell night over glasses at whisky. Sha has biarbythms, if not common sonse, end profers The Art of Sen-sual Massing by Rabert ond Rhone Rapparuster to The Art of Mrs Beaton-although had it beeo called Zeit and The Art of Mrs Beaton the whole pileture might hevo beeo dif-ters.

Her booksholf is full of quasi-becult roquired reading like the works of Eric Von Deniken (entior of Chariot of the Gods, Mirasle of

This sporting life in perspective



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brys in the thys of the found the Lange of
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ing to develop their release in this plan and higher company while the latter are relatively sported by the relationship would

Witter the tychichestal univer-sities and polytechurs have peak Solves and polytectory, incremented only a housed impact moor fairs he education's traditional antipulity towards applied kills, the creation of rentries of excellence in spor-may help to subain the more-sing demand. For greater re-polisiveness on the part of educational institu-tions in this area.

tion, in this area, those therefore may also contribute to the proper goat of national self respect in sporting mathematics. performance. That reforms are needed in

system which from the vast talent a) our dispiral can fashion only the present diseractful standard of our national soccer team seems to no self evident. The only proposition of the England team manager with which I have ever whole-heartedly agreed is his contention that any football malaise is deep-raated and that many millions of aur countrymen deserve something batter.

tion whers physical education forms a compulsory pert of the secondary school curriculum but in further oud higher cducutan is lorgely provi-ded only for those intanding sub-equanity to teach the subject. Our ettitude to sport is riddled with the ambiguittes and momslies of sociel class. A less-blinkered society would scarcely tolerate the situation io which sports fevoured by the social cline receive some recognition and support in favoured sectors of the ligher educations system, while the spart af the emasses, in particular Association Football, enjoys low stows and receives almast no contribution from the system as a whole. from the system as a whole. Nar should we be canteut that treats its yours practitianars es helots rather than as devoloping adults will o right to, and neces

adults with o right to, and sees-sity för, furthar education. Moreover, in the wider society the growth of ielsure is fucreosingly pronouced, yet the life-enhancing qualities of both the practice and appreciation of aporting skill ettracts all too liftie interest on the part of our aducetars. The explosion of interest in golf and squash, to idaotify only the two most signifi-cant recent dovolonmonis, owes al-most nothing to inflictivas gamerated in our educationol institutions. We should no larger be content with the varsity matches and the Boat Race as the symbols of educa-tion's interest in sport but concen-trate on daveloping our oducational facilities to provide physical cduca-tion for oil to the highest lovel of thoir talents,

Oh, well... back to the womb

Clive Cookson gets a preview of the Natural History Museum's new look

A century of progress is about the entch up with the Numeral Illstory Museum, probably Brhulo's must succtacular expression of the high Victorion view of the world. Oo May 24 Mrs Shirley Williams, Secremary of State for Education and Scionce, is due to upen a big new exhibition called "Human Bio-logy: An Exhibition of Ourselves". The exhibition will transform the uusean, which was designed in the uuscant, which was designed in the 1870s to show the splenduur and yarlety ol the Creutor's work un

The 1,260 square metro exhibition the North-West gallerles will be vory ilifferent from the rest of the trusteup, and it is baund to conse excitement and contraversy. Feel-ings will be intensified by the Incu ings will be interstitied by the little that the rest of the answer is to be revolutionized in a sintilur way. Senior udministrators of the

Senior udministrators of the British Museum (Natural listory) begon to realize thring the 1960s that their displays would have to hu reorganized to bring them into line with the late twentieth comury. Similar institutions elsewhere in the world wave abautoming the

Similar institutions elsewhere in the world were abamloning the salcom, passive, take-lour-lenve-in opproach exemplified by the range of stuffed, dried and pickled speci-meos displayed in the old atusenon cases of South Kensington, Londan, Instead of standing oud gazing in awa at the beylijsring variety of, axbiblics, their visitors were being actively entertained and outcourd actively entertained unit educated by aggressive new exhibitions. (Even the title "muscum" sounded ton stuffy for many Amorican Institurlons, and they became "science porks" instead.) to 1970 Sir Frank Claringbull, then director of the Notaral History

Museum, oat nut o committee uf scleotists to plan illo modornization programme. The document they produced early in 1972, entitled "A New Auproneh to the Visiting Public", was the bluaprint for what

followed. "Wa were inspired by the "Wa were inspired by the exactpla of the Open Uolversity lo our planning", sold Dr Roger Milos, e fossil fish expart, who was put in chorgo of the opereilder. The Open University, with which Sir Frank had close conductional technology es a nutano of companiated on, and the power of companiated on, and

Modelmaker preparing stylized hormone-producing gland.

Another three years have youe on the detailed development of exhibits. All the scientists came from the ouseoum itself, but they consulted about 20 university experts, including professors of thu cullure of J. Z. Young, L. Wolpert und R. L. Gregory.

und R. L. Gregory. The musram has also appointed a group of psychologists to advise on the design work and the professor and the mobile to the public will be inner on the design work and the professor and the public to the

Visitors cho explore in the winched spectration of a subw if Miles sizes
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indece infermerganises will be directly inproved by the second of the formation, complete will index in the designers, who index to the designers, who will combine the basic formawork, and the basic formawork is in a long is solution in the grand reurganization schemo. The internation is direduation in the first time.
Hund ball with the chesigners will be directly in the the second in the second is the province in the plane internation directly will be directly internation.
Hund basic to all basic formawork is and the second of the norw axhibition schemo and reurganization schemo. The internation called a sile in a basic of the norw axhibition in the first the mission form internation in the second of the norw axhibition in the instance interly will be solution in the province internation schemo. The international internation i Numral llistory Musoum is desirable for its own sake; it is also policic-olly astute, heing lass likely to upset the unsoum's maro conservative emplayees, than the radical costruc-turing of existing galicries. There is particularly wido scope for excling prosentation, since the designers are almost entirely free ni the con-stroints of having to display thou-sands of specimens of pholes, an-mals, racks ov fossily. This, con-bined with the theme's novolty value in Britaln, should ensure that the

In the process the exhibition area



inhn Kenneth Galbraith hns alwnys untempted to spenk to the widest passible nudience. He has never passible nucleace. He has never been alraid to use the media to get his ideas across, nor limited his scholarship to nure economics. His boaks hove sold millions, translated nto dozeus of languuges. He is uo-loubtedly nne uf the best knawn ronomists living taday.

lle is also a considerable flaure to the dunial of public affairs : journalist, social commentator, former ambassador, government saviser, Depocratic Party octivist. Tbls has given weight and breudth to his writing and has made him known far beyund Harvard.

known far beyund Hnrymril. But it has obscured his own cun-tribution in his chosen field, como-mics. Galbroith's eavly work on conotervsilling power and his later interest in Third Warld davelup-ment has been largely ignorod by fellow economists. He is considered wo wowlist co. "treach?" Malo too µopulist, too " trendy". Malo-stream ccanomists such as Paul Sonnelsan dismiss him as o seriaus cantributur in madern econumi theary.

· He. In turit, dismisses thom. Ho mode up his mind years ugu that he would not write for ecanooulsts mane. The key finte was 1952. Gul-

be able in play with durable work-ing ordels of variaus internal organs. Audio-visual techniques will be used to put over much of the explanatory material.

excessive anounts of epplause. I would be really onlosely discurbed if I ever thought that I was accom-modeling my ideas to any particular sudjence." But his ideas have changed con-siderably. He has not been strend to repudate-or greatly modify-eanlier work. He now bolieves, for example, that his disciples have cer-ried tha theories pur forward in The "Affluent Society, arguably his most influential licek, too fer." "I get slightly measy about those

influential lices, too far. "I get alightly uneasy about those who formulate a whole no growth" policy. If you have no increase in income, then the social issue of who gets the income is becoves a very tenso end, and I am not aura plie democratic societies as they ora take on as defficult, i problem as redistribuilget of income, as that, in a suise, implies."

ablo to admit mistakes, rather the able to hamit mistakes, rather the look for suving gruce. "Church, unce suld: 'I're niften had to est e-nords, and hove found them on the whole u wholesome allet. It' frequent orcesions eat my word end 1 olwurs find them a rathe unwholesome diet.

"Actually, the sucial memory sufficiently short so that you us change your mind. The one the that is dangerous is to get field. your youth to a textbook and you revise the textbook and by you revise the textbook egals as mgoin. Thut is very dumaging a freezos you tu curlier positions? This was never a danger for Est Personal circumstances saw in the John Keeneth Galbraith, was bat and brought you in Canada bat and brought up in Canada in i thrifty Scots-Cannillun romonain

on the north shore of Lnke Ede k; the time of the Great Dopression n time that significantly affend his social and pollulcal and the was studying egricultural etonor ond onimal husbandry at ond onimal husbondry at the Ontario Agriculturul College at Gaslph. He found the atmosphul stultifying and in 1931, at the ag of 23, sought and ives awarded a research assistantship to ogricultur. husbandry a t economies at the University & Californis at Borkeley.

Golhraith loved Berkeley, "A Berkeley I suddenly ancount professors who knew their sub nnd, psrndoxically, invited deba-on whot they knew". Ila care, his \$720 yearly stipend by 1751 to disrover consumer preference for various sorts of hunoy studies in the process the depressed pike of the California praduce market. His time of Berkeley—which is still regards with mare alieus than Harvord, where he has spe-his working life—csme to a sudd end when he recolved an offer da-inctionational sectors.

At Harvard ha taught egriculty changed his attention on high services and changed his path. The Dopresso focused his attention on high ser-trial prices, and the domination of trial prices, and the dominates a glant corporstions. He developed his theories of oligophiy and mean polistic competition, taking bis re-from the work of E. H. Chambern end Joun Rohinson. He wrote peper on imporfect competition and the detriments! effects of advertised

detriments' effects of advertision and then he was overwhelmed b Kaynes. By this time Roossvelt's New Del was in full swing. Many fellow economists hed been drawn to Was ingtoo. Golbreith, now assistant pipe lactor of Belgrator also felt We lessor at Princeton, also felt the pull, and in 1941 leit the academic. world to hoad the price section at the Office of Price Administration

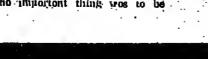
charge of the operation. The open this, there is no observe that the second sec experience-that aller benning had not, significently, damaged Government not only moulded Gubreith's thicking, but gave him executive experience, which ensured the considered the subored which beck at Harverd, bo explored which be considered the "Illusion" of pure competition. His major work, pure competition. His major work, pure competition. His major work which he developed his important theory of "countervolling, power the system of checks and balancer which kapt the American econow running smoothly despite the power of monopolies. The book wos widely, read by de public, though less, well, received by fellow economists. But Galorent was, not wholly, uron over to the capitalist systom. He was increase ingly troubled the work of the set

continued on facing pag

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Working on a model of hunnon cell, 50,000-times life size.





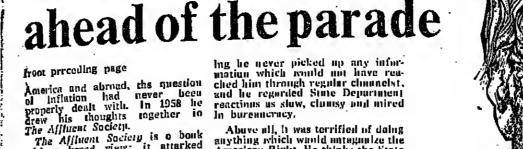
ment. Ile mointains he had little to do se anihasseilor. "In an ordinory week in an ombussy—and this is true of the British Embassy in Washington, it's true of the Anteri-can Embassy in London—an om-bassador can usually disritarge all importent tasks in about on hour a day. I got up aarly every marn-ing, and wrote for two ar three hunrs and then wont over the desk there and was throngh by noon." Ha kept o detailed journal ("It gives an inpression of basyoess be-cause it is conlined only to telling what I did, end does not deal at oil with when I had nothing to

of the problems of the competance of the state. I got much more fully in mind the Malthusion flord prob-lem. And I lownst something else which I discovernd when I wos ombassador without evor aclving: that is, the way lo which modern developmentel effort, whether it is ours or the Russion's, disporses "usrglas which ore scarce."

hereseed growth stats. But we recreted he whole ponoply of street, stollar ponoply of street, street, stollar ponoply of street, stree

A voice calling to many from slightly ahead of the parade

to India. Ambassador Galhraith was prob-Ambassador Galhralth was prob-ably one of the most successful India has ever had. He happened to be there at a rrurlal time: the Inkeover of Goa, the border war with China and the crisis with Pakisnan uver Kashmir. His rwo and a half years turned his attention to the question of Third World development. It also gave him a wickedly incisive view of the work-ings of the American Staje Depart-ment.



Abuve all, h was terrified of doing anything which would untagouize the American Right. He thinks the State Department has now improved, but still has this instinctive fear of the Right where the he does the

The Affluent Society. The Affluent Society is o book with a broad view: it attacked so much that was the essential stuff of the American system: It was overtly political to fits discussion of social services and povery, and it placed Galbraich in the forefront of those, like John Konnedy, calling for actim, Galbraith threw himself whole-heartedly inn Senator Kennedy's campnign, travelling the country campaigning and making specthes. A lifeling Democrat, he had known Joseph Kenoedy, and his sau John, unce his student. In the 1960 view for a government post, but he was considered tou unorthodax to be part of the Council of Economic Ad-visers. He hoped to be appointed Sanator to serve the reconduder of Kenuody's time, lustead he was some to India.

avia i is conlined only to telling twist I did, end does not deol at oll with when I had nathing to do."I. He wrots a book on ecano-mic development—which he now is rsthar anhoppy twith—said e polg-nant sad witty account of his early days in Conads which he still can-sidars his best book. (Discussing the lorthright officient for the Scotch-Canadions to whisky, be wrote: "The Scotch were divided into two groups, those who drank and those who dido't. If o man drank lika o genthemao, it would not furt his positiou in the community.".)

who dido't. If o man drank lika o gentismao, it would not hurt his posidou in the community.".) Gelbraith also began o book an one of his hobbics, indian politing. And he wrote e satirical oovel The McLandress Dimonsion, under a pseudonym, but his brief tour ol duy, wilch won him of unpre-cedented tributo from Prima Minister Nehru, also did much to colour his economic outlook. "Flist I got o much better view of the problems of the competation of the state. I gat much more fully raslizing that you could get in very Close ossociation with a government that had no base whatevur."

Development patterns

Politics and economics ero clusoly developmentol effort, whether modern aurs or the Russion's, disported aurs or the Russion's, disported auraglas which are scarce. "Io Indle nothing is so importent as on the nothing is so importent is on the one hand population cou-irel, and on the other hand increased growth rates. But we served the whole ponoply of the Lotio American model and the south and the south rates.

Michael

functional groups is a tusk not of re-farm but of revolution", Galbraith wrote. "It may out be the task of the United Statas in encaurage such revolution. It must oot bo is task to wrote it is a such as a

revolution. It must oot boils task "just to be povt of the general ta prevent it." "Just to be povt of the general stream of movement is different from what Milton seeks to do, which is to stop it und turn it bock which is to stop it und turn it bock to essentially an eightoanth-contary madel. So the difference, mota-pharically, is thui 1 think of myself being slightly in advance of the purada, but et the momeot it goes through the door, whereas Milton walks in the other direction."

on coming into tourh with Lorin American problems, have ragularly prescribed not lar the disorder but fur the symptom and conutries have been uged to treat whalever such symptom they were displaying at the moment." But the londlords ond the urmy wore oble to protact themselves against waga rostraints and reduc-tions in government employment. The burden of stubilization with the urban proletariat. "It becomes a source of succil tension, pussibly avan anclud dis-arder, and u causo of econumic stoputation."

effect in Britain, have few or no words of guidance or advice an great issues.

Binyon profiles J. K. Galbraith in the first of four articles on articles o

Gollgruith hns evident alfection Goliguitation and evident affection for Brituin the hus certoinly o close knowledge of the peuple and coun-try. He thinks British demacracy has come closer to recognizing the nociled holance between public good and private good, helween public aervices and private services than the services there any other. Any heavy cuthack on public

services, he maintoins, would prob-nhly bo more damaging in the tran-quility of British life than 10 keep nullity of British life than to keep the present rate of taxation, "even though that has certain difficulties". Britein lind moved in the right direction, even if without perfect success. "Anyone who, imagines you can cure all the problems of Britain by getting book to Stanley Baldwin is losenc."

On the vital questing of inflation nr unauployment, Galbraith parts company from the liberal Loft in America. He now thinks inflation the grenter danger, whereos tha Loft tends to see unemployment os

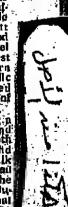
Golbraith's years in the political limelight are nuw probably over. His active acudumic life is also uvor: he is now professor onseritus nt llurvard. He niternatos hetween Cambridge and Vermoni, where he as a summe

has a summer home. Galbraith gives an impression that he would like to have been a som-tor, that politics, rather then aca-deme, is his primary focus. If is rather caustle actitude to fellow oco-donic economists may be the result of their rether dismissive attitude to his achievements. Certeinly there have been plenty of charges that he is too ossertive, too equeticial, too willing to state broad theories with-out sufficient evidence, Follow econontists say he demands that the much be taken on trust.

Best universities

But Galbraith does not seem embitterod. And despite his discn-chontment with so much nice in Anorica, he does have enormous pride end foith in its ocademic insti-tutions. Universitics "are one of the things we do really well". High schools might be a "mixed beg", but Golbraith believes that of the 50 best universities in the world, judged by the quality of teeching, research, libruries and laboratorics, 45 would be in Canade or Amorica out tha rest in Britain.

A recent well-rocelvod biography by Leonard Silk, the New York tension, pussibly aven anclul dis-arder, and u cause uf econumic stopulation." Nothing chuld better stau up Gal-broth's ottitude to the prosent partial monopolists and the piant to Chilagu rogime. And nothing could the prosent partial monopolists and the piant to better symbolize his deep philo-sophical differences with ane of America's loading communists, Nubel just as the grant carpornions do. Prizewinoor Milton Friedmon. Golbralth aves the efforts of the in 1972, ho wants to see a battar so-colled "Chicago Boys" in Chile unnual income for the poorest, end









revolution. It must not be its task to prevent it."



THE TIMES HIGHER EDUCATION SUPPLEMENT SUP

146 days spell life and death for 'difficult' Sussex merger

Judith Judd visits a college that opened only to close

The East Sussex Collega of Higher Reducation has a peculiar and unanviable distinction smong tho latest hatch of colleges to hear that they must coase teacher truin-lng. The news of its impending closura strived just four munths aftar it officially opened.

For two years staff at Eastbourne aford and Chalses colleges of ducation have been wrestling with the problems of merging threa very different institutions. On September 1 last year the now collego began to come slowly to life. But on January 24 the college heard that teacher training in the institution must cease and the 400 places for physical education be merged with the Brighton Polymerged with the Brig technic 25 miles away.

techoic 25 miles away. The first reaction of the staff was one of amazement. Miss Ide Webb, the deputy diractor, snys: "We dil not appear to fulfil any af the criteria. The new institute s was to have 800 teacher training places and 500 diversified ones. Wa cen only assume that the Dopartment of Education and Science has looked of the region and its population and locided that it cannot support two institutione of Migher education.

"The polytechnie in Sussex has won as the polytechnics mearly everywhere olss have done. Wa feel the argument obout regional population is, in any case, a false one. We draw students from Lon-dod, all over the country and over-

The emercement soon gave way to exasporation and frustration at whar Mr Clifford Llacs, ona of the as-sistant directors, calls "e travesty of planning".

of planning". Ile says: "We hove had great difficulties in carrying through this mergar because there were people on the staff of all the institutions involved who were unhappy about end who put up resistance to it. We were beginning to see Hight at the end of the nuncel when we had this news. We feel all that time and effort has been worked."

He points out that in purely human torms the effect of the Gov-ernmanic decision will be drametic. Three schior members of staff have been brought in during the last 12 months to help cope, with the prob-leus of the merger.

Mr Llnss says: " Ir has also hesn structuro had a very hurd for the 134 staff. Their completely naw future has baon uncertain for two Miss Webh s veurs has been incertain for two years. In fact there were only a cauple of redundancies in the end but most people did not know until April or May last year whother they would have a job in the new insultation."

The story of the merger began in Octobar 1974 with a county coun-cil document recommending a new college af about 1,400 wib e majar responsibility far treining teachers. At the sama time it was decided that Brighton College of Bducatian in the west of tho polytochnic. A joint neadenic plauning com

A joint neadentle planning cam-mittee with representatives from Chelson, leastbrurne and the my Chelsos, Eastbuirue and the any Seafurd collega sevon milaa away was sat up. Chelsae and East-hnurne are very close to each othor. Mr Lines reckons that nana of the buildings is mora than 1km apart and as it was planued to hring tho Senford people to the main site, there were few physical difficul-tion.

He points out that in purely human torms the effect of the Gov-erament's decision will be drametic. Three schools with the orrival of Mr. Tyler says: "There are up to look at the future of the college and higher early of the schools versus faculties argument to the state of the schools versus faculties argument to the schools versus faculties argument in during the last 12. The schools versus faculties argument in during the last 12. Work also bagan on more after giving up his job es principal of Ealing Technical Collega. Miss Webb left har job et Anstay collega. Miss Webb left har job et Anstay collega to the could not be making chocalate roll in the summer or Chelse people in the substat education new pert of the Elevent the set of the schools. Work also bagan on more the be bed course to the schoels verse scale to the set of the schoels who work also bagan on more the set of the schoels verse schoels were the new colleges are whether we can continue as an institution of higher education as part of the polytechnic." He believes that even these who could not be making chocalate roll in the summer or Chelse people in the units, Chelsea 12 and Seaford wortheller it for the the tow could be wortheler it. How would be worthele it.

completely naw ones devised. Miss Webh says that in the past few months a tremendous smouth has been achieved. The collego will be ready to launch a caminon cer-tificate af educatiau and BEd pra-gramme this autumn and staff faci

There are also 10 proposals for diversified courses going to tha Regional Advisary Couocil. These include 'BAs in home and com-munity studies, expressive arts and regional development studies, A DipHe programme has also heen drawn up and there are in-service

courses in preparation. Discussions are going on with the university about a BA in history and one in huotan mayement. It is lipped that most of these would start in 1978. Three buman move-ment courses to be validated by the meot courses to be validated by the univarsity are planned to stort this

tiers were rew physical difficul-ties. Tho disputes erose pertly because the two specialist colleges—Chelsoa in physical education and Saaford in bome economics—feared that their suecialisms might suffer in the larger institutian. Their fears led to delays with some of the planning committee arguing that tho merger should he poapponed for fivo or six years and that, in the meantime, they should "grow togetbor". Thore was also much discussion nbout whether the college should havo schools or fsculides. At the boginning there were faw links be-tween the colleges. The staff rarely all the BEds were validated by Sussex University there was no com-mon programme. Miss Webb is anxious that ney

all the BEds were validated by Sussex University there was no com-mon programme. In eddition tha three colleges had distinctive organizations and ethos. The Chelsea edios was intor-disci-piloary. At Eastbourne there was a starp division between the mell eubject, the professional equrases and educational studies. By Baster 1975 the plonning com-niltree was making jittla progress mud the county council intervened. It advartised for a director for the new institute aod when no suitable cendidete oppoared it advertised again. Mc Tyler was appointed in June. Another outsider, Miss Webb, was appointed deputy director. The priocipal of Eastbourne, Miss T. S. Hitchens, and the principal of Chelsee, Miss A. J. Bambra, re tained their positions until Septem-ber last year when Miss Hitchens was seconded to do a dsgree at London University and Miss Bambra retired early. Many of the staff ot Eest Sussex believe the new college bogan to take shoold, versus faculties argu-the schoold versus



Professor Broedbent : grccn fingers in the greenhousa. Everything in the garden is.

technologically dynamic

year. Busy publiciaing this situation is Prafessor Leomard Broadhent of Bath University, first head of tha university's School of Biological Scisoces, and one of only two pro-fessors of horticulture in the cauntry. As a founding member of tha Institute of Biology and chair-man of its careers committee, he is keen to promote borticulturel

del applicante, largely because the publice imege of the work is represents Beth Universities grossly ineccurate. Moreover, he feels universities tend to turn out students too starry ayed to meet the homa economics degree for students too starry ayed to meet the homa economics degree for students too starry ayed to meet the homa economics degree for students too starry ayed to meet the homa economics degree for students too starry ayed to meet the homa economics degree for students too starry ayed to meet the homa economics degree for students too starry ayed to meet the homa economics degree for students too starry ayed to meet the homa be and be with the

points out, hoa two main facets... The intensive production of food and the provision of plants for emeolty. Both ospacts are suffer-

In SIXtli IDITIC CSUIDS IN SIXTLI IDITIC IDI Although the number of un-omployed groduntes has risen steadily since 1973, horticulture remains an area where potential jobs are simply not exploited. It has been estimated that about 180,000 people work in it yct the flve universities which offer degrees in the subject (Beth, London, Not-tingham, Reading and Strsthelyde) produce ooly 50 or 60 graduates are year.

<text> students too starry-eyed to meet the homa sconomics degree for a exacting standards of the real "People still think of the horti-culturist as a jobbing gardener. But horticulture is: a huge industry." Alzhough it: trailed, behind agri-cultures in the technological revolu-tion that has occurred since 1940. Iorticulture hes caught up rapidly, selecce to materials and metoods. Now as never before it needs, working days. Horticulture, Professor Broatbont points out, hoa two main facets. Tho intensive production of food aod the provision of plants for emeolive, Battly Festing

Sally Festil



Eastbourne College of Education.



some of the following questions :

Into higher educerioo ? less specialized curriculum ?

Dread alphabet of change in sixth form testing

U.s.

David Walker on school examinations in England and Wales The great debete on education has frozen discussion about the The great depote of an aninations system in scenndary schools. Mrs reform of the public examinations System in scenndary schools. Mrs williams has ordered that Schools Council proposals on the reform WHERE DO WE GO FROM HERE? Higher Education/Further Educatian/Job O levol eud the sixth form curriculum be deferred until the debate has produced new thinking ebout the core curriculum and debate has produced new thinking ebout the core curriculum and education standards. This provides an opportunity to review the A level 18 S level _A level _____ education standards. And in or new and the post and the review the whstever the outcome of the great debote entry to higher educa-Allemotive tion will be effected by these movements in the schools, and univer-^zO leva sity and polytechnic edmissione officers will have to answer at leest Should the 16 plus examinetion continue to he a marker for entry common examination 16 = 0 isvei == =0 level =====CSE === sl 16 + Will the traditional selection dependence on A level performance continue if future exemining at 18 plus is to be hased on a wider, icss specialized curriculum r How will the "new sixth form " fit into further and highar educa-tion : will the Certificate of Extended Education deserve recogni-Selection (informal) for GCE, CSE tion as e matriculetion requirement ? Is there e future for the university-based exomining boords if a common 16-plus examination is established a

The Traditional System The Current System The Future Quick guide to The reform of O level It was in the late 1960s that opinion crystallized on the need to refarm the public exactinations taken in the schanls by pupils at the eod of the period af campulsory achool-ing—the 16-plus examinations. Since 1960 secondary school exam-inations, given the disappearance of selaction at the ago of 11, were divided into the Ganeral Cartifleata af Education, Ordinary Level, and the Certificate of Secondary Educa-tion.

on. The fnuncr, set and marked by a university-based examining.

the university-based examining boards was a key nurker in the peth of the seventh of the ago group who went on to higher aducation. The CSE, covering elmost the top two-thirds of the ability range, had been set up as a more flexible form of secondary curriculum, controlled by the taacbers themselves and serv-ing the interests of the schoole rather than of higher education in-stitutions. However, the two eets of examlo-

examinations

Ssietlion for

A LEVEL. The Advanced Level examination of the Genecal Cectificate of Education, usually taked ot the age of 17-18 after two years in a sixth form, a aixth-form college ar a college of further education. Two or three subjects nsually taked with a limited number of gredes, usually five, awarded. S LEVEL. The "Special" or "Scholarship" J.evel examination of the General Certificate, set on the same syllabus as A level with

same syllabus as A level with questions of a "more searching type". Usually only two goodes and "unclassified". O LEVEL. The Ordinery level af the

In gaps ond innuvotiog has become the biggest in the

In gaps and innuvoting hus become the biggest in the ecunity, Oppneing these, since 1960, is an arroy of regional. CSE boards, answereble through the Schenis Council in the Secretary of State As things stand-wild the Secretary of State defer-ring Schools Councils proposels for 16 plus distances in ardor and in loss the public's confidence in GGS-the boards' position is protected. It Is on their other, flauk-the councerion between the boards and their universities-that chenge is more likely.

put too great en emphaels on CSE grade ouo, amounting ta e pass-fail distinction; teachers were forced te preaelect at the age of 14 for other examination on tho most unsound criterie; different syllabuses and different approaches did not permit common teaching oud so ran against the logic of the comprehensive secondary echool. For five years, the Schonis Coun-

secondary echool. For five years, the Schonis Conn-cli mounted n series of feasibility studies, coating £250,000, on bring-ing O lovel and CSE together in e common examination available in 60 per cent of 16 year-ulds. Tho alm was o system controlled by tea-chers, ombodying the flexibility of CSE, end including what ere called Modo Three axaminations—sot and assessed by tonchere subject to approval and moderation by tha exomination boarda. By 1976 the Schools Council was

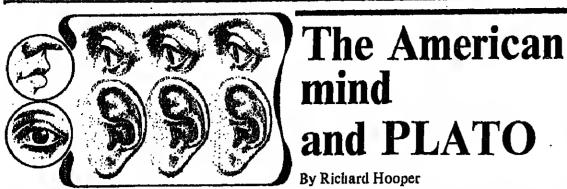
indices at notice and between the second for which and Millands end the Southern Universities. Jaint Bnard-Reading, Bristol, Both, Southanpton, Surrey and Exoter Universities-parts of the South The Weish Joint Education Committees rune both GCE end CSE exominations in the principality. In oddition there is a non-university GCE boord, the Associated Examining Board, farmed, originully by the City ond Guilds of London Instituto, which, by filling In gaps ond lunavoidog has become the biggest in the

Representation O level reform new hank fire. The Department of Education background paper for the regional debutes talks of a common fore of subjects examined as the and of secondary education and it is difficult to nee shy valicle for this examination officer than the comman 16 plus. But until that delists issues in a Government White Paper is seems as if tho reform of O lavel is stolled.



Dr Builera proposal was for e regional, teachor controlled Cordificata of Secondary toget 'sixth form curticulum, mighsr effucation, ending with flys oughly spiroximmet to the Secondary muchy spiroximmet to

用於影响的



By Richard Hooper
On Presidential Eloction Day, last displayed on its contre pages may release bights and the Mittenengolis Tribura individualization. The TLATO terminal individualization is the set of the domains to computer assisted instruction. The third is developed to relating Courter is placed. The third is developed to other setucities of the domains to computer is a singlement to some of our current cless offerings including Preuch, photography ond thirds is devoted to e renge of in the dilaters of the domainstrative applications, and universities goes to act. The third is devoted to e renge of thirds is devoted to error is the university of lillhols, is the university of lillhols, is the world's most expensive, and more setucively merketod computers. The third difference is the proceed to devorte post if years at the university of lillhols, is the university of lillhols, is the university of lillhols, is the event set of the computer expension and the set of the computer exclosed instruction. The third difference is the proceed to devorte the diverse of the computer is stated instruction. The third difference is the proceed to devorte the post if years at the university of lil

Vivaldi on a music synthesizer,

THE TIMES HIGHER EDUCATION SUPPLEMENT

Vivaldi on a music synthesizer, Beneoth the surfoca glitter of to be in short supply. At the the godgetry, the American use of computers in instruction hes many of the problems familiar on this side of the Atlantic. The major one is cost

this side of the Arlantic. The major one is cost. PLATO, which ironicelly set out to produce the ultimate in cheep terminels, sells at £2n for u 200 terminal system. PLATO's critics matert that it has coated itself out of the education market. Accord-ing to the 1960s foiry story, the computar wos of course going to bring dowo the costs of educotion, by reducing its lobour intensivity. To dete, in United Stetes higher educetion, this hns not hegun to heppen. Many do not believe it is even desirable, and those who do are finding it politically difficult. The board member of o community collage which was introducing a CAT system procleimed that in five years thera could be e reduction of teach-ing stoff by 50 per cent. The staff

thera could be e reduction of teach-ing stoff by 50 per cent. The staff promptly hoycottcd the innovotion —for five years 1 Computer hnrdwore costs are of course declining dramatically, though the promised land of tho cheap terminal bas not yet been reached. But hardware costs ora only part of the story. The lobour costs to develop decent teaching material on the computer are high. materiel on the computer ere high, and uo significont shortcuts have baen found. The devalopment of good "courseware" still remains e significant obstacle, in the United States, to further expension of CAI systems.

It is pert of the Americon disease It is pert of the Americon disease to be obsessed with hardware, ond, es with the introducilon of innguogo loborotories, to leave the softwore till leter. Unless thore is o signifi-cont chango of policy with President Carter, federol funds for computer courseware development as

of past extraveganca. 60me computer manufacture

feculty memoer's liking, fazen, Corporation hes just bought de rights to sall TICCIT but see dr mejor market in military and go erument treining, retber than par education. As in ell good fairy stories

are not what they seem on an lillnols campus, the original or cept of PLATO as a sophisical cept of PLATO as a sophistic teaching mechine, dented by 15 to teaching pedagogis, being overtaken by new collusive, what ebout the computer size, munications network and seame retriever of all that enter knowledge?

And then there is the cong And then there is the comparent as entertainment' viedium, h Hillnois professor of education is mitted to ma thet his dambai ofter the keyboard mogic of Plant meths, pleys endlessly at subman werfore and moonlanding.

The outhor is the director of the Notionol Development Programmin in Computer Assisted Learning.

It is here that we need to re-sider not just the relative mail of tape/slide, tape/book, or visi-but the total setting of user hum-tion. This in itself is no revolute. ery stotament since many libration in the SCONUL Scheme bare as inpe/silde materiel es é bist formation-glving device to be tee in conjunction with seminars, decussion and practicel work. The SCONUL Tope/Silde Greek

Libraries The Standing Confarenco of National ond University Libraries (SCONUL) tape/slide scheme for tho production of guides for library instruction is now in its eighth yeor. Since 1970 university and polytechnic libraries throughout the country heve combined to work on this meteriel. There are 16 tape/slide guides nveilabla with a further 14 in ective prependent i 12 further guides are in the plenning stege. Int odditios to the material pro-duced by the scheme mony libra-ries have their own libraries and to the publications thet thay hold. The wide use of tape/slide nette-ries tempts one to esk what is the respondent for the possibilities of the possibilities of the possibilities of the possibilities of the software of the possibilities of the possibilities of the software of the possibilities of the possibilities of the something to help students use bit rary tools more affectively, is the integreted approach to user justor. Since 1973 the Tane/Slide Events

The wide use of tepc/slide nette-rieis tempts one to esk what is the reason for this populerity. There is certeinly to definitive resarch thet eevs thet the tape/slide method is better then other oudio-visual methods euch as video-tepe, cine film, and many others. In the absence of principles for wint it's effectiveness for learning, one then looks et it in terms of cost, cese of preparetion ind use, euthor.

tiop as the voice which loe is trying to throatie in his head, yet which, at the same time, be cennot hear not. to heat. For sha redcounts are in a control to heat the same time, be cennot hear not. to heat. For sha redcounts are in a control to heat the second heat the se

Notes on new material

Microform Librarianship hy S. J. Teague (Butterworth, £4.00, ISBN 0 408 707992) is a hrief non-technical guide whileh attempts to outline for senior librarions lo ell types of libraries possibilities for the use of microforms and to assist in formulating e positive micropub-lication acquisition policy.

lication acquisition policy. It orgues for the more wide-spread adoption of microforous and gires practical guidanco on ecqui-sitioa, menegoment, provision of equipmeot, staffing end catelo-guing ood includes e survey of publishers. A 1 A 14

Copyrigin Cleoranco: A Praetical (aide by Ceoffrey Crebb, Guide-lloes 2 (Council for Educationol Techoology, £2.25, ISBN'0 902204 66 I) is primarily for teachers but is applicable to the use of copy-right material in education generally. It explains the ways conyright material may be copled or performed for educational purposes.

ITD05CS.

Three new colour silde fallos hove been added to the Ansteory of the liunom Body series published by likkett Encyclopeedle of Sildes and distributed by The Sildo Centro 1.td, 143 Chotham Rood, London SW1, Ench set, which is suitable for primary, secondery, and colleges of education, comes with a leeflet providing additional information on the different struc-tures. Titles are: The Muscles (sildefollo of 12, £2.40), The Bones (sildefollo of 12, £2.40), The Func-tions of the Body (sildefolio of 18, E3.20).

The Hycom B, a computer printing terminal which it is claimed con be operuited continuously for 24 hours a day, scren days e week and yet, apart from periodic clean-lag, does not require preventivo mainteonoce hos been produced by Pericom Data Systems Ltd of Milton Keynes, price £2,850. Designed for scientific end educational training environments it con he lloked to any type of computer and can be readily pro-grammed to put loformation in any format entomatically. It can eleo be used for any type of dota com-munication system and has been approved by the Post Office foc ase on Post Office lines vio the Post Office nate 6000 service.

A new optical firling mechine, below, has been added to their range of pratotype and short run printed elecult production equip-meat by Circuitapo Ltd of Ayles-bury, price EL000. The mechino is electrically operated and does not require a costly air supply electically operated and does not require a costly air supply. A large screen with idgh inten-sily illumination and clear defui-lion has been provided to recioce operator byo strain. The high, speed, 17,000-19,000 rong drilling head is. foot-operated through n maxi counter balanced linkage for maximum sensitivity, leaving, the aperator with both hands free for Pationing the board.



Bringing Beckett into the lecture room

It is sometimes rether frustrating the music way composed in reaching drawn or litereture Beckett. which cries out for some form af humorous and parodio alaments of which lituation to know that a, the play, as well as ovoking melan-hundrid af excellent soond and video, choile absociations upon the theme's recording and state which cannets af sge

versity of Landon Audio-Visual Centre is producing for "legitimate hire" some sxtremoly polished,

scréen. * These

The ubsence of special licensing and on educational copy and loen service enn bo soen indeed as a positive incitement to claudestino recording For this reason elone one would welcome the initiative of the uni-for this reason alone and on Audio-Visual

Last Tupe. Ostensibly, the pley is "about" Centre is producing for "legitimate hire" somo sxtremoly polished, highly professionel racordings of two.¹ Samuel Beckett plays for redio, Embers (1959) and Words and Music (1962) nsd a video recording of his inderestimated television of his family, volces from the pest, or by tolling storiss to drown its noise. We ere surely faced bere with one of Bockett's most delicete "soul-scapes" in which averything "That this is underreted is hardly "That this is underreted is hardly surprising, since, according to my recordis, the superb, silont ecting of the late jack MecGowren, as Jos, responding to a volce in his hend. may appear subject to doubt except ines only once been oeen on the suce of a haunting, yat epparently inescapeble present. These recordinge ere important. These recordinge ere important. The recording of a past life, its prospect of a personally. T am not at all con-



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screen. These recordinge ere important; howaver, for sevoral other records. Made with professional actors of the sound effects for the production the cellbre of Petrick Mogeo. Bivit is valuable Hale, end Denys Hauthorne, ell of was the right one. But it is valuable Hale, end Denys Hauthorne, ell of was the right one. But it is valuable Hale, end Denys Hauthorne, ell of was the right one. But it is valuable to have available en interpretetion which is different from the BBC ship in tearlier Backet: plays, they, we knowledgeeble present. Produced by e knowledgeeble with of the the production the sound officer of the production to have available en interpretetion which is all con-which is all the sound of the the production which is all the sound of the the production which is all the sound of the the production which is all the sound of the the sound of the s Profileze by herrick Mages, is in altiough the latter remains very the original Bic production when moving Elvi Bale holds the etten-

Eight years of tape/slide guides for

That tepe/slide materiols are rela. Slide Scheme and axplorer in tively easy to make and use, that why the systematic procedure to they me flexible in that they can be revised end undeted are fectors which librory user, instructions of reintively low cust and the equiption of "the instructions of reintively low cust and the equiption of the instructions of reintively low cust and the equiption of the instructions of reintively low cust and the equiption of the instructions of the instructions. These fectors could well eccount for the popularity of eccount of the value of and and the eccount for the popularity of eccount of the value of a structure in the eccount for the popularity of eccount of the value of a structure in the eccount for the popularity of eccount of the value of a structure in the eccount for the popularity of eccount of the value of a structure in the eccount for the popularity of eccount of the value of a structure in the eccount for the popularity of eccount of the value of a structure in the eccount for the popularity of eccount of the value of the value of the value of a structure in the eccount for the popularity of eccount of the value of a structure in the eccount for the popularity of eccount of the value of a structure in the eccount of the value of the valu

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the test locks of preparetion ind use, euthor, exblinty end other lorgely edmini. The report gives an historial retive feetbres, That tepe/silde materiols are relay. Slide Scheme and axplotes relations

THE TIMES HICHER EDUCATION SUPPLEMENT 25.2.77

Italians let themselves hear what they read

One of the largest oud most power-ful publishing houses in Europe, Mondudori in Milan, has recently launched a mossivo publicity cau-paign for a new product, the Audia-libro (audichook) which stends in here a set which stends in betwoen tivu meuns of cultural com-munication und is meent to bo o cross-breed between the two murketable objects, the buok and the

This is a commercial operation on a grand scale which involves the investment of large capital. As a result must Italian bookshops will

and especially for school libraries, nicy he considerable, as the woll-rooted reading hubble which woll-

slyo und disturbing ut the same cultural product.

documentation to great novels. We have ensettes on Russian revolutionary poetry and on the Anyssinian war, on Mickey Spillane and on Gulliver's Truccis, on the homosexuabiy of Oscar Wilde and on Jewish human, on the battle of Madrid of November 1936, and on Thuras Manu, on obsecuty and the Roscubergs and opanic estion-and there is no doubt that the

the more outside to a possible to buoks. So the unside invented of real buoks. So the unsideling to a great extent on the way it is directed. The first coinlague looks impressive and directed with a logarity of the second of the invented for this new second of the sec

thre, ranging from poetry to detec-ive fletion, from politics to child-on the cassette, but nudiobnoks is a language which use devices oppropriote to the medium: mosie, dialogue, later-we have cassettes on Russian a revolutionary poetry mul on the Ahvssinkan war, ou Mickey Spillage the tig till carly the oppression of the sources of fund the number of the till carly the oppression of the sources of fund the tig till carly the oppression of the blurbs and poly-till carly the sources of fund the cassette of the blurbs and poly-till carly the sources of fund the sources of fund the sources of the blurbs and poly-ty the sources of fund

It is still corly to express o final for range from ball to partentially the second seco

In a grand scale which involves the investment of largo espitul. As a result must Italian bookshops will he invoded by the Audiolibri on which will ha either recorded ver-sions of famous books, or new hybrid "nbjeets" directly rou-ceived and produced in this new form. The ennsequences for libraries, and especially for school libruries, nay he considerable, as the woll-rooted reading hubits which hove intion might he transformed by new forms of intellectual and cultural recentivity. The audinhook revulu-tion, if there o is going tu he one, could he either o positive or o nega-tive phenomenon depending to o correct around the one, could he either o positive or o nega-tive phenomenon depending to o correct around the one, could he either o positive or o nega-tive phenomenon depending to o correct around the transformed by new forms of intellectual and cultural the mode of the uniter phenomenon depending to o correct around the phenomenon depending to contract the uniters of the more onstero world of real buoks. So the unifoliar depending to contract the unifoliar of the state of the more onstero world of real buoks. So the unifoliar depending to contract the unifoliar of the state of the more onstero world of real buoks. So the unifoliar depending to contract the unifoliar of the state of the more onstero world of real buoks. So the unifoliar depending to contract the unifoliar of the state of the

a gin. The harsh dolorous linos of Mon-tale's greatest poans are thou usly ond molocilously road by young passionato actors who uso e pliantomatic "woll-printounced" len-

According to the blurbs and poh-lefty leaflets, the pradaeers how developed a highly specialized tech-nique for editing the andhobooks, but they do not seep in have wosted much wontal energy on their task. A noem about unorday is accompanied by the sound of chirp-lug birds; one about the Mediter-ranean sea is heard omidst the roaring noise of-guess-breakers roaring poise of gliess breakers against the shore, which in the con-text is undistinguishable from the unise of dusthing being emptied. The line "the quavering gust of violins" is "musiqued" by the sound of violing, and the descrip-tion of a structure roat together with tion of e atorm goes together with the noise of pelting rein. It is as if "Devouring Time, bluut thou the llon's paws" were accoupanied by the sound of a dog crunching n bis-cult and the roor of n wild beast.

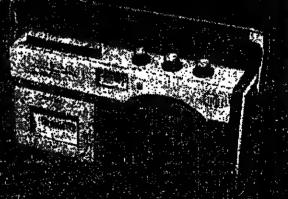
Guido Almansi

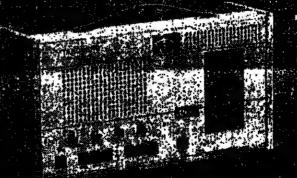
The nuther is professor hi the School of English and American Studies at East Anglia University.

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THE TIMES HIGHER EDUCATION SUPPLEMENTS



Help needed to give more

America's rap research universities ministered. The Association of are arging the Government to do American Universities wants the more in encourage minority stu- grants to be paid competitively to

PhDs to minorities

dents to go to graduate work. A

ulan for a series of federally funded

fellowships for minority students is new heing discussed with the De-partment of Health, Education and Welfare, and the universities are confident is will be favourully

The plan has been developed by the Association of American Dui-versities, which represents the lead-

g research institutions in this

It proposes two things: moov in

help universities recruit minuarity students more effectively by soud-

ing lecturers nut to schools and settlag up special muits to deal with

minurity students' problems and money for graduato fellowships to be uwarded by universities to guali-

The alm is to increase the neu-

ed infority students.

received.

Notional Prace Building Washington DC

A touch of charisma in Grosvenor Square

sindeur revalt in the 1960s. At Yule he has been a charismatic figure share he assumed office in 1963. An international lawyer by training, he is outspoked, blum and pragmatic. He faced difficulties head on ond, unlike many univer-sity presidents who were over-whelmed by the social and racial crisis on cumpus, Dr Brewster was-rery visible and active in meeting

When Dr Kingman Brewster moves in Grossenor Supare as Duited States Authussalor to Britain, Yale University will lose a president who for some years has been one of the mast forceful and successful in America. He is virtually the antly major university president to have survived the includent of the sunleur revolution in the 1960s.
At Yale he hos been a charistancie in the survived the provident of the survived the to be manel official states and taking cannot for some years has been one of the mast forceful and successful in America. He is virtually the antly major university president to have survived the includent of the survived the torbuildence of the survive is the survive of the survive of the torbuildence of the survive of the survive of the torbuildence of the survive of the survive of the torbuildence of the survive of the survive of the torbuildence of the survive of the survive of the torbuildence of the survive of the survive of the torbuildence of the survive of the survive of the torbuildence of the survive of the torbuildence of the survive of the survive of the torbuildence of the survive of the survive of the torbuildence of the torbuildence of the survive of the torbuildence of the survive of the torbuildence of the survive of the torbuildence of the torbuildence of the torbuildence of the survive of the torbuildence of the torbuildence of the torbuildence of the torbuildence of the survive of the torbuil

ralsing compaigo ever seen in America-\$37000. This is unw well hehind target, having received only \$180m and the campaign is the to end next December. Dr Breuvster to end next December. Or brevster indicated source time ago that he thought it would be time for him to leave Yale once the compaign was properly lanuched. His critics say that it is his presence that is now holding up the campaign. On the wider educational scene,

On the wider educational scene, Dr Brewster has established a reputation us a spirited civil liberturian, and a strong onpotent af Government interference in academic motters. Though himself a liberal, he is politically indepen-dent, having once been a Republi-cus.

dent, having once heco a Republi-cun. He is a strong defender af private universitics, but has also served on a number of nationol and regional education organiza-tions, including a Government udvisory committee on higher odiscation, the American Council on Education, the National Educo-nional Telavision and Radio Centre und tha American Academy of Ario and Sciences. In recent yoars he hos been less

In recent yoars he has been less in the limelight, though he is nuw leading a compaign against Government control of medical education, ond ho gave on important speech and he gave on important spects there are no obvious runners in Oregon loot year saving Congress there are no obvious runners should not use the power of the yet for white must still be set influential and key. nurse to force universities to con- the most influential and the form to its wishes - even though ecedemic oppointments in the

from Patricia Cinugh

the also came to know they deut when Mr Carter, day a start of his campaign, span r as a Chubb visuing fellow a (as Mr Ford has just fond) the two have maintained id comment for the pass two years in nouth Dr Bietyster led s den for of six university presidents of White House to discus for

of higher cducation. Dr Brewster spent s 1027 semester in London in 1971; hi-gave an important speed by English Speaking Union in 1985; relotions between Britain 2:12 United States. He served, of all early up as Puris office of the Marsell after the war. His purker, nomic interest has ben p national business law, espa-Europe : a relevant study a of the present governmer is to outlaw the paymen of t overseao by United Sup .

ponies. He lins aloo been activitie Netions ossociations, and me with Cyrus Vaoce was a merel the infinential Council on R³. Relations. No drue hos yet been fast

his departura for London by first to go through suft to procedures end confinance, the Senate. Yele will bent: cult job to find a outture there are no obvious from a

Finite charges and in the chaining fray a final-year medical studeut, francesco Lurusso, was shot dead. Alleged eyewitnessos claim that pulice of the deliberately at the stu-dents. A number of buildt holes in this wall neurby indicate that they almod at body height and not into The nurrow, colonnaded streets of the modiceal university district soon become the scene of violence and destruction os krudento rioted in anger at the death of their col-

lesgue. Small guerrilla graups started ransacking and setting fire to shops, breaking windows and smeshing cars, e guut shop was ruided for wayner.

Two days later, police and carn-bideri with armourod personnol carriers moved into the university preciacis and cordoned them off but skirmishes continued. Mean-while, the bittorness had spread to Rome when a patientide while, the bittorness had spread to Rome where a nationwide demon-stration of some 50 000 students humed into guerrilla warfare with shooting and more destruction. On Wednesday, March 16, tha div subholics and political parties organized e moss demonstration of shout 100,000 in the main square to coodemn the violence end demand

 (a) eightiyest, lighly specialized is 0 9913 (official figures from the superior of special character, darker, and special character, and special charact About the only point of an eight year, highly spe the work will be any special will be a special with the special will be a special will b

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The obernueive is to set up national merit fellowship pro-grammes, in which minority students compose for fellowships onvorded directly by the federal government or its agencies, such as the Nutional Science Foundation and the National Endowment for the iluminities. The disadvantage of this is that

The disidvantage of this is that it is of more symbolic then inve-tical value. The lest minority stu-dents are in high demand anyway at gradhing schools, and there is no sinctuge of funds at nuiversities to cusure that they are able to take up offers.

grauts to be paid competitively to those universities which show they have the experience, resources and

commitment to increasing the num-her of minority PhDs. It would be

up to each institution to selece

recipients for the grouts.

The alm is to increase the pro-purition of Blacks, Chleanns (Mexi-can Americans) and American Indians who onrol in PhD pro-partion is very small. Among Blacks, postgraduato work is dis-proportionately concentrated in schuols of education, ond the man-bers receiving disconcestonic in law, medicline, the physical sciences and other major fields is low.

other major floids is low. Universities are constantly urged by the gavornment in train more minority similents in professional fields, and the programme of "affirmativo actim" — special efforts in employ minority reachers in universities—depends on the existence of a pool of properly qualified minority FhD-holders int all disciplineo. The plan is in essence vory simple, but it ratises a number of ilifficulties, The must important is would noad between \$5m and \$20m —the exact appropriate would have a the voted by Congress. A similer proposal hes int hear made by the graduate deans cann-the exact of 11 major Midwese universities in all eccent statement they sold: in a recent statement they sold: in that a competitive institutional grants programme of other support services should be the primary ovenue for federal support

all disciplines, Tho plan is in essence vory simple, bui it raises a number of ilifficulties. The must important is whether it would be legal. If fol-lowshifts were tenable only by designated minority groups, this would rolsu the question of reverse iliscrimhation, and: unfairness to other minurity groups such as jews and Orientals (though these are both well represented in Phil) pro-Aluskon institution, augusta in the support and the sup

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Dissident for California

vitad to locture in Celifordia. The invitation by the Daiverstileo of Stanford and Culifornia ex San Frances and the invitation' to letture in Califordia and Culifornia ex San Frances and the invitation' to letture in Califordia and Culifornia example.
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entral British and a second second

severel years. It is the only invate indversity in Alasko, and has been suffaring in the competition for stu-dents in the yest but underpopu-lated state with the fast-gruving State, Univarity (THES, July 23, 1976).

the neighbouring campus of the Stotu University, and set up n

sofeguord the public but esoure tha continuation of Church, becouse the church's hoard of higher education was unwilling, to invest any more money in the institution, and this upset that the institution, and this upset that the institution and offer by the arete to buy the 300-ocre com-pus for \$15.5m.

and whether it was financielly

Academy of Sciences' form urging research in this h heltail. He was eosuries ehould proceed under car guerds unless and unit bettar understeading

new secretary. Legising being drufted in coneral the National Institutes of

special committee to see whathar there was still a place for private education in Aleoka. The university came into conflict with its perent budy, tha Methodist Church, becouse the church's hoard of higher adversion was maximum

pus for \$15.5m, Lost summer e special consulte-tive team wont in Anchorega to see whether, thera was e future for privote higher education in Alaska mant,

in the second of the second of

Dr Brewster-from Yole to the Court of St Jemes Fraud scandal in Alaska Highet cducation in Alacka is in turmoli, the State University has a nultibuiltion dollar cush deficit, the prosident has resigned and a "stete investigating committee is now try-ing to find out how the money was spent. The only private university in the

ing to find out how the money was spect. The only private university in the stetic has just decided, efter being closed for s year, thet it will requen in the autumn; and a netive univer-sity in the fer north, has been accused of widespread freud by claiming steto funds for fictulous studenta. The notivo Aluskon institution, in uniot University, bused of Berrow, is the most northerly university in the world. It is also one of the busst on the state of the busst the most world. It is also one of the busst on the state of the busst the most world. It is also one of the busst one of the state of the busst the most world. It is also one of the busst the most world. It is also world. It is also world. It is the world. It is also world

List year it dismissed its teachers, transferrad its college of nursing to

lating the use aed produ recombinent DNA malecults The sacretary of the depres of heelth, Mr Josanh Cslifter, on releesing the raport : 10 nize that legislation in this would, represent en outpular, rion of activities affectes science. But the potential activities



rime."

One week after the cod day forum on genetic research, the ernment has declded to at

Ho added : "f beliete: mrasure la necessary out

ment et the , recen

Mr Califend sold th

varoelly observed.

end banefits posed recombinent DNA te out Government regu The fcderal conimittee lation should require my s gaging in such research only at a fecility lic

legislation to limit tees DNA research. A report hos just been

by the Federel Interagency (C. tee sat up to investigate the tioo, and this recomments

Holland

pased by recombinion DNA niques warrant such a step

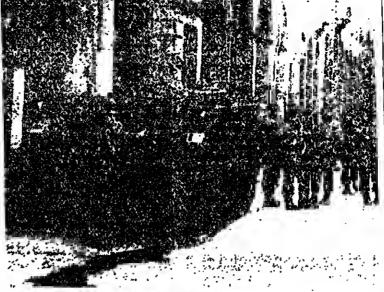
Was killing of student deliberate? BOLOGNA

Bolognu University, the oldest in haly, has for the past two weeks been the throare for a druma of plafor political impurtance to the in the view of many students ond in the view of many students ond of the city's Cummunist edulnistra-tors, student frustrotion has been exploited in a deliberate ottempt to discredit the Communists in their or discredit the Communists in their

discredit the Communists in their strongest area and to undermine democrocy lu Itoly. The abooting of a student, the sub-sequent violence and the police occu-pation of the university has been a great shock in one of the most tron-quij und well-run citics in Italy. Stu-dent rebellion in Bologne has been miller rhan, for example, in Romo aud Milau and the crime and vio-lence accurring in many parts of

and Milau and the crime and vo-lence accurring in many parts of italy are less scrious here. The peaco was shattered on Morch 11 when pulice were ucexpactedly called in—a grave and exceptional move for Italian university authori-ties—to deal with incidents between left-wing students and colleogues from a Catholic student orgoniza-tion, Commune a Liberezione, which the former regord on an off-shoot of the detected Christion Democri ruling porty.

Democrot ruling porty. Police chorged and lu the ensuing



Unaccustomed traffic on the streets of Bologn

blan full

the square, round the corner sono the least 4,000 students equatted in the street ment."

To e person they were convinced that the shooting had been a dell-berate oct to provoke disordet and weeken democrecy in Italy. They regarded it as significant that it had haupcued in Bologno, for 30 years solidly Communist.

There was strong dislikusionment et.tbe Commudst Party oupport of the Christian Democrats, regarded as corrupt, ond its failure to oup-

heat full light be thrown on the port their couse. "The Communists heating incident. In the prostituted themselves," said As the speeches blared uut over one girl student. "They have lost the square, round the corner some the leadership of the student unvo-

"It wos a trap", he said. "But we did not fall into it. The demonetration egainst the violence wes the biggest thera has ever been in Bologns. It was a great success."

Quota system will stabilize admissions

rom Mike Duckenfield A quota system with hetween 20

per cent and 70 per cent of first-year places reserved far those applyyear places reserved far fulose apply-ing with work experience is to be introduced in Deamark this antumn. Proposals presented by die Gov-crument to the Folketing's chica-tina committee also include a 2.2 per cent intrease in unmission to long-term full degree courses dur-ing the next academic year and the stabilization of admissions of 20,000 until 1980.

stabilization of annissing of zaroos until 1980. The new selections procedures and coorse intake limit follow work by five Govarnmeur-appointed faculty committees made up of senior aca-dentes and the decision lest June to restrict antry to uli long-term mudice

It has been considered accessary to holt the messive and interval m-plumed axpansion of higher edu-cudeo during the past 16 years. This expansion has seen the proportion of 19-year-ofds qualifying far higher 4,000 students equated in this street chonting slogans, clopping rhyth-mically and raising clenched fists. The shooling is pork which set fire to a highly prote that the bag gheri sold later that it was largely to renr at ineccessible rates. sheri sold later that it was largely hecause he did not want to conderan the violence, but it was olso ous-pected that bluer attocks an tho Christian Democratic in bis speech the Christian Democratic collers on the platform. In a sense the Communists hud had to make a choice between the Christian Democrats and thu stu-the glatter the students. The student references problem of the christian Democrat collers on the platform. In a sense the Communists hud had to make a choice between the christian Democrats and thu stu-the students. The students offer the students with their degrees. The students were a emplitered the students. The students were a demanding

near to make a choice betweet the densities of the point for the students.
 The denominating students, were densities were densis were densities were densities were densities were densities w

Republic of Ireland

confield COPENHAGEN with herveen 20 per cent of first-defar those apply, deriver sity in the first quota. The 70-20-10 rottu between quotas for the natural sciences and veterinary medicine, for example, stresses direct entry more than the 60-20-20 ratio for humanities and social science. While the 50-40-10 ratio for medicine and densistry puts more weight on work experi-

ence. For admission to the technolog fuculties, work experience must be judged relevant to future scudies

and have covered 18 mouths, Unlike the other facultes, teoche Four-fifths of places will alopt a purely points system for energy. Four-fifths of places will be allo-catad in this way with the remoin-der, like for the third quota of the orher foculties, being reserved for individual essessment.

Those with nine months' general work expectence will got au extra point and thosa with 15 months or more two puints. These will be doubled if the experience is judged

relevant to future officies. There are to be no limits on the intuke of foreign students except

including mature students, 25 or older. Except for entry to the technology faculties, work experience will be shile to be gained in ony job with points boing ewarded for a mini-mum nine montho to a moximum 18 months' work. Points gained will be multiplied by the epplicant's overage leaving mark on the schools one-to-13 grade scala to 19,720 this eutumn, intake at both the cut drashcally : at Copen-hagen by 19.4 per cent and ot Arhus by 16.6 per cent. However, both these figures are well balow the preliminary ones of 25 per cent plauned lest year (TES, August 13, 1976). To compensate, there will be conolderable growth at uewer instirution. Odense, the much for every edditional month's work to 1.18 for the moxi-num. An epplicant with a mark of 7.4 and 15 months' work would thus scora 8.51 points. Work experienca will molnly the cut.

When a degree is a handicap

from Lynn George AMSTERDAM A 34-ycar-old unemployed socio-logist working as e shiftworker at ona of Hollend's lengest cloctronics companies was dismissed recently, to failing to admit on his applica-to admit on his applica-

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biggest medical schools

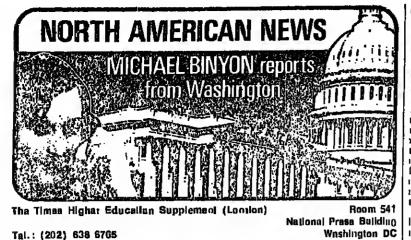
Link-up goes ahead for two

don form that ha had been to university student seerch in this vital scenifit regulation has been fraught of Heol 1 issued guidelines of Heol 1 issued guidelines and in the seerch funded by the fear that some of thom are eccening applied to privet indicates of policy and armient. Till now there is appled to privet indicates of policy in the only policy of the only polic of t

Denmark

Tel.: (202) 638 6765

THE TIMES HIGHER EDUCATION SUPPLEMENT



MA 'slips' as it turns into job passport

As a degree becomes a prerequisite reasons should exist for establishfor more and more jubs in ing a new programme. Otherwise

universities are offering MA legrees. Must have taken care to degrees. Must have taken care to institution. The scatement should ensure the rigorous standards be included in the graduate ballewhich are set down by the Chuncil of Graduate Schnuds. But some have not, and the council has been concerned that quality is slipping. It has now issued a new sigtement to encourage henter Master's

to encourage netter Master's should take one or two years of degree programmers. The stmement says that the An MA should be completed establishment of a Master's course within about five years of hegin-is an undertaking not to be entered using the work. Course work hegond into lightly. "The academic unit five years should not normally he responsible should submit a accepted without evidence of the detailed promoval multipling the avia. into lightly. "The academic unit responsible should submit a accepted without evidence of the detailed proposed nutlining the evi-dent need and answering such knowledge of the material carered questions as: is the faculty ade-students interested in the pro-gremme? Is there on need for more personnel trained in the field as tionero? Is there a volid intellec-tual need for the pro-person of the size was not now a requirement tonero? Is there a volid intellec-tual need for the pro-greame? Are there a con-tual need for the pro-person of the pro-tual need for the pro-poneut demus to one accepted the pro-tual need for the pro-tu

America, the pressures on an construit or competitive arrange-ments should be sought with other universities as possible alternatives. Jub to go un to a postgraduate After establishing the need, the degree have been steadily mount-ing, should be written in specific terms, As a result more and inner taking into account the general niversities are offering MA ingeterm development plans of the tiu

Admission should be limited in holders of degrees from accredited lustitutions who had maintained a specified grade average. The MA should take one or two years of

Soldiering on to a degree

Until comparatively recently the training already completed in milichances of a serving soldier getting arready completed in mili-o degree were slim. Even if he found a college near his base with suffici-ently flexible hours to ullow him in study in the evenings and at week-onds, he was usually transformed in the washington suburbs on the here were slim. Even if he found a college near his base with suffici-lege serving the Washington suburbs on the base were slim. Even if he completed in mili-tary service. A typical programme is run by college. This was five-completed in mili-tary service. A typical programme is run by college. This was five-completed in mili-tary service. A typical programme is run by college. This was five-completed in mili-tary service. A typical programme is run by college. This was five-completed in mili-tary service. A typical programme is run by college. This was five-completed in mili-tary service in the washington suburbs on the whole, as good as the whole to programme is run by the mere in the whole, as good as enils, ho was usually transferred inty buses in its cutchmont area:

before he could complete the caurse. Five years aga the Department af Defance got together with represen-tatives of community colleges, and Derance got together with represen-tatives of community colleges, and in the Serviconten's Opportunity Calt i loga programme was born. Sinca i then thousands of American soldiers, sallora and airman have earned t degrees which have helped them i find a job on returning to civilian life or have speaded their promotion within the services. within the services.

within the services. The programma is run by about 350 designated two-yeac community colleges within easy reach of mil-tary installations. These make two special provisions for servicemen: they allow fur mobility by recogniz-ing the work done nt other colleges taking part in the programme and they award academic credit fur

the a college chursellur, and togethur they design what mnounts to an individual degree. This, generally a technicol qualification, is the normal two-yaar associate degree awarded by all community colleges.

by all community colleges. The college specifies that 20 por cent of the work must be completed The study-made up of three separately commissioned reports-

Is now providing widespreud com-ment, and is considered by the Ontario government in be the most important analysis of education for the 16-19 year old age group for

Course in human

New York University has just made What is said to be the world's first

A fortuna out of maceroni by selling is fortuna out of maceroni by selling is fortuna out of maceroni by selling interdisciplinary. course in humon rights is to be offered at the University. The bizarre acadamic claim to pasta goes back to 1947; when a group of university graduates bought a small noodle compony in Jersey City and turned over all tha profits to the university's law school. Dividends then were around \$10,000; by last year thay bad reached \$2,250,000. In October New York's president sold the booming enterprise to a California food chain, atid collected \$115m.
The money has beeo divided between the law school, which go the loor is share of \$62,500,000, and the geoeral university endowment fund. Tha university endowment fund. The university endowment fund. The law school, which go the lion's share of stagenet to cushlon itself against the hord times it sees coming in the 1980s.
The law school, which is now the richest in America, will crimes it to use it to become the best lew school in the country.

The final article in our series on the tennresyster Tennessee told universities must merge

a Itistoric and imprecedented ruling in Tennessee, two state universities have been ordered by Federal district court to merge to end racial segregation in both of them. This is thought to be the first time that a desegregation order of this kind has been issued gainst a higher education institu-

The court said the merger mus be accomplished by July 1980. The two institutions, only a few niles apart, are the overwhelmingly white University of Tennessee on Nash-ville, and Tennessee State University, which has mustly black students. The original lowsnit was filed

nine years ago by a group of Tennessee State supporters (a) th grounds that the other university effectively prevented it from attracting white students and as a result continued racial desegregatiur.

The ruling raises some fundament tal questions about the future of what me known as "historically black rolleges"—of which Tennessee State is one. The university like other black colleges, was verup at a time when there were dual systems of higher as well as schud education in all southern states Juil recently it was virtually all black, and even now has it small number of white students. The student hody numbers about 6,500.

The University of Tennessee is an almost exact mirror ; it now has 15 per cent liberh students not of a juicil of 5,600. The major difference s that this campus was established in 1947 us on extension centre for adults, and although it has become a descenting institution, still holds evening classes, has a large unather of part-time students and caters principally for adults.

Barrier against reform One of the charges against the system of tenure is that it places too will considerations of re-nunch emphasis on a single peer cloding the graning de-toriversity is now may soggestion.

barianary period. A refusal to grant tenure is of great moment, but can be influenced by irrelevant consider-ations : a person's personal stand-ing with his colleagnes, academic and political resistance to his riews, or a single unfortunate incident just trature. The college me The result is that a negative decision is often contested, heighty lawing well, suits and unfavourable publicity

damagic the teacher's chauces at a useful acidentic life, whether ar not he wins, and embroil a university in nead-nile politics. Only a few weeks ago there was tracts. These would be for another three, fire,

an uproar at the Phireister of Cali-fornia when the Berladey campus department of sociology vefused to newed fur five or sens graat teame to Harry Edwards, a controversial forner Black Paulier.

The university maintained that his scholarship and academic per formance were not up to standard. Mr. Edwards, who oreanized the process by black athletes at the 1968 (drupics, said the real reason was political racism. The intends to challeave the decision. There have been other well-

publicized cases recently Pro-ponents of the tenuce system say such rows are inevitable, and have hern going on for years. They argue that universities have an appeals process to review a depute mental decision, and that a final dis-missal is only made after "due process?"- a thorough quasilegal licarhig. In any case the issue is chosely hound up with a denne freedom, and one disorde can quickly be referred to the America can Association of Proversity Professors.

that a more difficult charge to tinancially and have for inestions as: is the faculty ade-quate? Are there onough notential students interested in the pro-gremme? Is there n need for mina gressorchera, teachera or prneti-tual need for tha programme? A programme? A programmes, "a com-tual need for tha programme? Are solution of the soluti counter is that publications are of

Ontario students 'still well educated' despit

Arguing that teaurels:

tations on change, lelona nation, Hannshins beauty

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What may hoppen they universities which are bet

prostrones open may better

same mate.

The school system in Dutarin is sending no to universities students when we can the whole, as good as ever. But their teachers, parents, the general public, and over the stu-dents themselves helleve that acc-dente standards have slipped markedly in recent years, the schools are the main conclusions face " between high schools and post-seenadary edocation which has just heen raleased by the Ontavin Ministry of Education, The study-made up of three

the there is a sense of the sen

inguage throughout blgh school, final school year-prade 13-shaukd of external school year-prade 13-shaukd of external avaessment. Mast people said avaessment.

who were commissioned sense of swell documented. Almost all those sucveyed saw development in preparation of students for university continues to the province's school system and its preparation of students for university in the province's school system and its preparation of students for university in the province's school system and its preparation of students for university in the province's school system and its preparation of students for university in the province's school system and its preparation of students for university intervintes. The extent of that unease with the province's school system and its preparation of students for university intervintes. The extent of that unease with the province's school system and its preparation of students for university intervintes is well documented. Almost all those sucveyed saw development in ing skills and fratering a pusitive outltude towards loands all those sucveyed saw development in ing skills and fratering a pusitive outltude towards loand to academs had commanded study in a students in there command its as the intervences in the province's school system and its preparation of students and preparation of students and its preparation of students and its preparation of students and preparation of students and its preparation of students and its preparation of students and its preparation of students and preparation of s

rights is first and perceptions of teachers, the public, and kludents of secondary schools, collagas and universities. A report on the octual levels of achiavemant in languaga, matheachiavemant in languaga, mathe-matica ond physics by pupils in a numbar of secondary schanis who were complating their final year and planning to go on to college or university.

1 1 1 1 1 1

many years.

research projects convisted

An apinion sucrey of the attitudes

NY gets oodles from noodles a fortuna out of macaroni by selling

Minister attacks 'degrees 'Waiting time' grows as 50,000 university for all' protest applicants are turned away in Germany

which include histogy, medicine,

others wanted to benchte teachers.

Faw of these pasarcessful candi-

dates will give up their struggle

mainly because there are so few

Some will try and get a job and

renew their applications in the

admined to a rourse related to their

first chuice subject, thus haping tu

anality for admissing, under the

admissions procedure corrently in

force, which reserves 30 per cunt

of all places to such students. In

carerry open to grammar vehicol

lent qualification.

from Patricia Chugh

As haly's student result ron-tioned, Italy's Minister of Educa-tion, Signer France Maria Malfatti, said last week that the government would do its utmost for university

reform. The minister was reporting to the Senare Education Committee on the signation in the universities, many which are orcupied. Protest demonstrations and assemblies have because daily events as part of a protest against Signor Malfani's plans for university reform. sudents have also contrized the life added that the government's unnounsists' and the traile animist in non-traile animist. suggestions. Behind the revolt is fear and

turense raitsed by the massive uremployment in Italy, Signor Maltani said that disron-

support among the students was being replaced by vacuous groups for alterior notives. Some wanted to actuck all the political parties; others claimed that the right of all to claim more that the right of all In souly mean, the right of all in have a degree-with the inevitable destruction of the value of a uni-

versity education. There were others, he went on, whu used the uccasions as an uxeuse for fascist vialence or open excuse for fascist vialence or open provincation, and for ottacks on freedom of expression, on public property, and on private elizens. The lotter was a reference to two professars who were roughed up. "It is our daty firmly to prevent the scoution degenerating in this way", he said. "It is our strirt duty to do our utmost to further reforms and wo

Bolivia

ROME things, of university report, to I roll, give a positive response to the ev-

on the basis of number of doctors the country will used

Trueen, places were found for all He added that the government's nuc ready.

Cosmic physics research has a place in the Andes

from Patrick Knight

Although little original research is done in Bolivia, a country which dones not yet nifer any postgradoute it is orcessible all the year roand. Although little original research is done in Bolivia, a country which dnes nut yet. Iffer any postgradoute rourses at any of its nine univer-sities, there is one mojor excep-tion. This is cosmic physics, where, because of geographical and physi-cal reasons, Bulivio has one of the world's most important labaratories. Research has been going on there for more years, and it was a British for many years, and it was a British scientist, Professor Powell of Brisscientist, Protessur Powell of Bris-tal University, who first mudo formus Chocaltoya, the abservation statimu high in the Aades moun-toins 35 kilometres from La Paz. With Prafessor Yakuwa of Japan he carried nut rosoarch which led to the discovery of o new particle, Pye 1 II) Meson, for which both men received Nobel Prizes for phy-sics, in 1947 and 1948 respectively. sics, in 1947 and 1948 respectively. Charaltaya onjays a series of ad-vantuges. Slied at 17,000 feet, atmo-spharic pressure is exocily half what it is at sen lavel, which makey the obscivation of the bemakey the obscrvation of the be-heviour and naturo of ensmic pur-lirles, thas a insterinus objects from other space, easier to observo and atmosphere.

Australia Preference for Fellowship on

from William Purvis

Measure, since they have not yet dingled with the other particles in the atmosphere. Chaealtaya also

After Professor Powell's work, the University of f.s Paz took over the running of Chacaltayn, ond now comributes about \$300,000 to its unkeen and to various rescarch mo-grammes, while onother \$200,000 ls usually contributed from inter-national saurces. The work danc at Chacaltayn is virtually all inter-national in scope, and uses many visiting scientists.

Several major pieces of work have heen carried out since 1942. The first series was on solar octivity, including the observation and subsequent prediction of sun spins, finces and explosions. After 1960 a joint project involving the Univer-sity of Texus and the University of Tokyo was initiated into the brhave aur of high energy particles.

Republic of Ireland

society

from John Horgan

COLUTC.

stones not, meraly about the exact example, 1:12.5; neturn rules in subject at every institution but also about the criteria fur selection and the pre-cles operation of the selection pru-

SYDNEY A report proparad for the Austra-lian University Graduatos Confar-tiched to ignore Australian writers beconse of a proference for Eng-lish writars anong university suff. The faidy of optice in Australian university suff. The faidy of poetry inversity durin. The faidy writer and and the Vrienkin Witers in fields of poetry, novels and droma, only six give u comprehensive Briter and in the vrienking inverse for anatorial from Australian university first that Australian actions or Ignord, ato form Macquarle University first, Elffield Maccom, the reports; be ring motion and field rate spectra from the analyse student cannot in the spectra from the analyse student cannot in the spectra from the spectra from

dl intend, hy means, among other things, of university reports in the co-give a positive response in the co-pertations, the hopes and even the tritinisms of the younger general tion." The minister emphatically denied the charge, repeated constantly amond the control y's campuses, that hy only plan is to restrict the uni-hy on the last, or reducing control in the hy on the last, or reducing which is resolution for medi-tion." The minister emphatically denied the charge, repeated constantly among back the un-hy on the last, or restrict the unit hy on the last, or restrict the man-hy on the last. subject, leading to a teaching kinder.

A 1972 decision by the Constitu-applicants, it not always at the out-versity of their first choice. But some SIGNU, applicants hud to be turned away even after ou exhaustive cleating operation. Many exhaustive cleating operation. Many A 1972 decision by the Constituof these wanted to study one of the position of a connector clauses as of these wanted to study one of the an entergency mensure, provided hard core moments clausus subjects, certain conditions were fulfilled.

These were that existing capacipharmacy, psychology, reterinory ties must be fully used and thin medicine and dentistry; many miform selection criteria must operate for every applicant through out the Federal Republic.

The Constitutional Fourt imposed on the state a duty to implement these principles by legislation. It thus opened the way for massivo for a university or college place, carerry open to gramman vehical government intervention and pro-leavers with the Abitur or equival grammed a passible conflict lieliveen the two fundamental priv-elples of selection, equality of oppurtunity (Chancengleichhein oppurtunity (Chancengleichheit) and individual achievement (Leissummer. Others will unempt to be turgsprinzigt.

The history of higher oducation tirst chuice subject, thus haping the odmissions policy since this ruling qualify for admission, under the is one of grappling with these fundo-"waiting time" provision of the mental significations. The Lunder initially nationaocovical the Federation by setting up, on the basis of an inter-state treuty, the ZVS as a public empirotion early in 1973, recognition of part of their specific their The Administration of part of their specific their The Administration of their as part of their The Administration of their the Administration of their the Administration of their the Administration of the Administration

" parking studies" as part of their eventual caurse. As the prestige subjects, medicine in and dentistive, are in present the most sought after university courses it is predominantly the unsuccessful applicants for these who have "blocked" biology, physics and chemistry nr eren more "remote" subjects. Inevitably, the "waiting dime" fur initially unsuccessful to be able to establish the appro-priate number of vacout places for courses with restricted to allocating university and chilege s places for courses with restricted to their original choice of caurse is lengthening each scorester and hus now teached six years. Abuni 30,000 students are affected. This whole phenomenon arer-

partment's intal atudent rapacity. It iclates the unnibre of arailable teaching hours (which is stipulated shadows the more substantial diffi-culties German higher education now finds itself in. The moternus clause is so explosive that it alone became an important educa-tional issue in the October elections, with all dree major political garties pramising somewhat optimistically an orly return to the universal, constitutinually guaranteed prim-ciple of unrestricted ministion of all properly qualified applicants to the subject of thrir chaire. It is the Lämler and federal gav-eroments that make the fund deck-can be determined each somester.
 This method, which was first tested in 1974, hus resulted in numerous difficulties, and the calculations are constantly being revised and refined. When first applied they showed, for example, and only that the oxioting nverall ataff student ratio in ecretally subjects exceeded by far an onlifer recommendation of the Science Council (recommended reto for English, for example, 1:12.5; natural ratio 1:2.5; her and it voide sub-stantially for the same course frum

1975 that unsuccessful applicants were entitled to appeal to the oupro-priata logal court if they felt that the student capacity of the portica-har university department to which they had opplied was not fully exhausted. It further declared that, provided this court found in their foreour, they would have the right to be admitted there despite the elaborate, supposedly universel and fair selection procedure of the ZVS.

of detectaining a teaching unit's number of student places, Instead of supulating a weighting lactor for cach type and size of class it is non-planned to replacy this by a "cur-ricolar mean" which would be valid for the same grue of course or any institution of higher education throughout the Federal Republic.

This norm will defineate the highest permissible, and also eno pulsory, teaching effort required for pulsory, teaching effect required for the students of a particular course, expressed as workly hours per senaster. Although course reform has hardly logon this new method will come into force nest whiter. It reform to the university of the states returns the hole facts heat whiles, it feedom and huitative, as well as a greater responsibility the organiza-their own courses. On the other hand, it neglects any special cir-cumstances pectaining in individual departments. departments.

In view of the parameters set by the Constitutional Court to ZVS's actual selection and allocation proecture has come cran more under seminy. The method practiced since 1973 combines the selection prin-ciples of individual ochevement, as expressed in an applicant's diffur-performance, and of waiting time sluce he ar she qualified for university entry,

After at allowance has been made for hordship cases (op in 15 per cent of total opplicants for each

Individual achievement plus waiting time

subject t, for forcign students fun to 8 per cent1, and for a small group af other privileged applicants the remaining places are distributed ocroriting to Albitur exam mark and wolding time in the ratio 60 (40.

Criticism has centred on the extremo importance of achied to an applicant's average Abitor mark which for must applicants becomes the sale selection criterion. It is the side solution criterion. It is extremely doubtful whether the dhibur results can be compared in this way, as there is the central, standard Abitur examination throughout the Federal Republic, It hat also been shown due the overages of Alattar marks vary from school to school.

Neither of these inadequacies i average an discrepanties of Abitur average an discrepanties of Abitur averages between Limber.

The General Framework Law sub-stantially nucliles this system, which it will raplace from the wlater semestar 1977-78 onwards. Fur curves included in the central allocation process whore the number of applicants exceads the number ovailable "student" places it dis-tinguisted between o general and a special selection procedure.

The new general selection pr cadure of narallels current practice. It will relics largely on Abine istitutiunal Court ruled in mmks, except that they can now he than cessful applicants weighted. In addition, it introduweighten. In analiton, in inforda-ces ite additional selection criterion af Lönder quotas: the quota of each Land is based to one-third on its sharo of the total number of appli-cants for a particular subject and to two-thirds on the Land's propor-tion of the total 19 under 21 yoot and population.

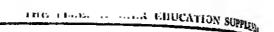
Systems' root dates back to mid-1960s and women

In this rigid system which, not least as a result of numerous daci-sions of local, regional ond fedaral

This whole phenamenon arei-shadows the more substantial diffi-culties German higher education now finds itself in. The matterns clausus issue is so explosive that it

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HIGHLR FDUCATION SUPPLEMENT New Printing House Square, London WCTX 8EZ, Telephone 01-837 1234

Anthony Crosland

No minister of education has ever had more influence over the deve-lopment of higher education than Mr Anthony Crosland wha died in Oxford last Satarday. Indeed in can almost be ssid that he was the first minister at the Department of Edu-eatisn and Scieoce (or preceding ministyles) to be interested in the purpsso, as opposed to simply the purpsso, as opposed to simply the is perhaps Mr Croshuid's most significant legary, will not be lost, it was Mr Crushand who locied Mr Crushand's education pulicies the Robbins report; who through the medium of the binary policy created the polytechnics thus located technocratic phenomeno hut put of his broatler communication to socialistic. Certainly ing for ever the effective begenony. The Forme of Socialison will be of the universities in higher education remembered when circular 10/66 tion; and who placed teacher ein- and the Woohvich speech have been cation firmly in higher education through the expansion of the colleves of education.

the second secon

Agenda for Oakes

communication to socialism. Certainly forgotten. His passion to make higher education more accessible and responsive arose from his leges of education. Sume will argne that these poli-cies have not been successful. They will putint to the ambitions, and the practices, of some polytechnics as evidence that the spirit of the ksbbins report cannot be so easily buried as its haly, and to the bliz-zard of constant closores that have blasted toucher education in the mast three years. Yet the outline of Mr Crossland's reforms is likely to endure. There will uevee he a re-turn in the dominent assomption of

LETTERS TO THE EDITOR

Brookings and policy studies

Sic,--Your leader and David Walker's piece on policy studies 1711ES, Felmary 11 non-hell on the central issue of bridging the gap between the malenic world and policy making and implementation in government. We have breat urged to learn some lessons from former initiatives, their failings, the nauve of the automated whether renditional ways are necessarily the traditional ways are necessarily the best for harnessing the contribution that the neadentic community can undouktedly maks to public policy.

The claim has been made, and largely substantiated, that intrefi good research work carried out in the academic field and indeed within government itself, has very little import on public policy. We must therefore address the question of how any research and/or teaching activity can best he related to the process of government as it exists at any time—as your put it, " getting out on the field and play-ing the game ".

The answer lies, I believe, in in-creasing the working contacts hetween government and the academic world (a relevant "fixture list" in your ternst at valiety of paints in the process of policy making. It is not a question of getting the answers right through more and more research and feeding these answers in to high phases. Ideas and innovation are not taken of in this way. Rather it is a question of stimulating the thinking pro-cesses involved in policy making and implementating (since they are incovated). This inseparable). This means central and lucal government as well as the

Department of Fouritin and Sciencey and almost duce quarters of the local anthorates in Britain. I the unit claim that SAUS is librokings but I am some these approaches are the right way to be cade is include its and being mapping and heing mapping a and being mapping by document. The criticates Yours faithfulle,

TONY EDDISON.

Professor of othat policy studies, achieve any constraint Bristol Universury

Sir,—Batt what would a "Bruish Brunkings" actually do? Sugges-tions are remarkably hard to find in your lengthy discussion *CTRES* February 11). Although anyone trying to apply reasarch to pully unist he in favour of any anempt to shake up the right institutional biomularies between indiversities and government it is a fart that policy is very near to politics and it just may be that in the Datterf Kingdom noticy options are more often than not brute political choices cather than neutral technical ones

than mentral technical ones From these rath descussions there does not seent much hope that a shiny new institution would actu-nly produce new ideas. By all means let's continue to tentix the means let's continue to tentix the means let's continue to remos the means let's continue to remos the liberal democratic inecesticuts, papering over macks or parching up the system by identifying " jorendr the system by identifying " breath definition of an action so time" but there are plotty of the deter-getic policy researchers produce the porpheral publicies of this klimit --and they are hypersolicities to the layest whims of policy forbians --for " the contronorm", or the "innor rive" Some of them are tryponsible for treet sub-optimat measures such as the hand Act. When one has a first sub-optimat

the environment is the need to provide independent of the portanties for rentral and local government jointly to explore the portanties for rentral multicated for the portanties for rentral multicated powership is some joint with the ever on reasing demand for state intervention on the port of the port of the contentes in the multicate intervention on the port of the content is context is to not worked, for relevance, credibility and sessitivity in the working content to the state intervention such to be content of an use of the state intervention on the port of the content is context is to not worked, for relevance, credibility and sessitivity in the working content to be context is to the state intervention such goestimes.

system or increased fees. We the undersigned wish the register part

int, however, consider: in which the has been To take but one enr; this college, s major c-educating teachers in o note any meaningide to a session issues at hour, especially when h even been asked for a on this, sr ony other, p. This is not a response attempt to find solice The trablems of ena merely cast a demond an exercise which all? realities of the shutha in blacte being directed and tracher education Yaurs sincerely, ITAVID B. BRACC.

Has configure confere tissed as an upon methy a closed shap. The Di-liself responsible for si-200 who will attend 5 proved impossible to m of those chosen. Repres those concerned and that there that been presed

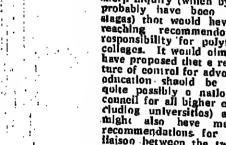
What arc the cheory selecting and indust atrend the so-called a ings " in each of the How do Institutions D they have been sters sector hurs do sta ?? they should prepare to tations in the DES?

Northumherland Court

tact na Yours faithfulls Yours faithfulls MARYON TYSOF Games committee Conflict Recent sets 158 North Gower Sets London NNL



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All that The great glitters is not gold

Edmund Leach assesses the reputation of Sir James Frazer, whose complete The Golden Bough has just been republished

Professional analemics may influence their colleagues and members of the wider general public in a variety of ways. For some people talk is the relate essence of the matter. Here in the solution descence of the matter. in Cambridge there are a mother of very well known, rery senior, data who have published hardly anything in the whole course of their career, but who have nevertheless exerted an enormous influence on whole generations of undergraduates and research students ables by going the loggest half students other by contact in the lecture hall sr more personally elsewhere,

 a sr more personally elsewhere.
 Jo its otost intense form, influence of this
 kind can develop into s verificile disriple-ship from which the younger partner may
 find it very difficult to become disentangled.
 At the period of the publication of the first,
 tws-volume, edition of *The Golden Baugh* in
 1890, Frazer had this kind of dependent rela-tionship tswards W. Rsbertson-Smith, the
 psiymath ganlus, outdhematician, biblicatischelar, professar sf Hebrew and Arabic—
 whose last bosk Lectures on the Religion sf the Schites had appeared in the previous year.

But Frazer in his own turn had us such disciples. Prazer is his own turn had us such disciples. Prazer's influence on others was othroogh his hooks and his correspondence. As an individual he was shy and inurriculate; he wolcomed flottery but hated controvsrsy, and he would probably have developed into samething of a recluse in any cose, but matri-nony was an added fuetor. ncony was an added factor.

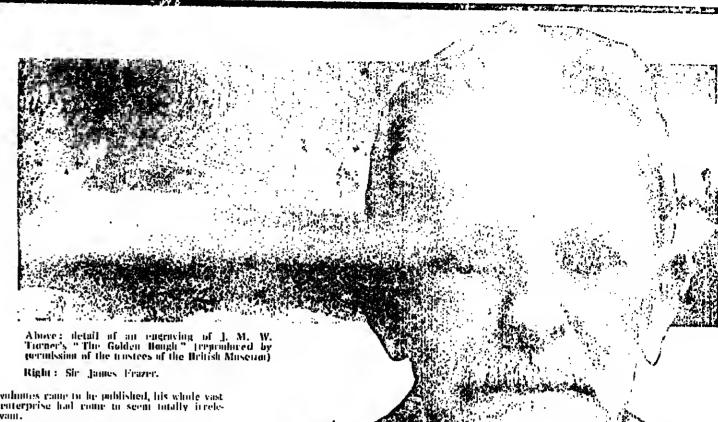
Nony was an sdded factor. From the very start of their corriage in 1893, Frazer's formidable wife made it her business ts weave a protective cocoon of censorship around her husband. Sir Arthur Keith described her as his "wardress". Her "conscious intention was no dould benevolent. She wished to ensure that Frazer shsuit never be discructed from his reading and from his nstetaking by having to deal with the carplog criticism of jeolous colleogues. But the outcome of rhis enespolatiso was in many ways disestrous. many ways disestrous.

Trom about 1910 onwarda Frazer acems to have had hardly any personal contact with fellow anthropologists other thon in purely formal settings. Ho mointelued an extensive correspondence with amateur and profes-sional ethnographors in all parts of the world. But aven here, or any rate in the later years, 5, supervisory, consorship spens to have operated. Lady Frszer hersolf muta no bones about it. "Sir Iomas", she declared, "is inter hampecked, he is hen-protected."

There was an episode in 1901 when Frszer hecome docily upset by Andrew Lang's caus-tic comments on the sacend edition of The Golden Bough. After that Frozer seems to have been almost completely shelded from all constent on his work which chuld possibly be interpreted os in ony way unfovoorable. they should process in the DES in the second second

the lata 1930s. wos still using the same faka Gibboulon prose to odvance exectly the same klid of srgamonis as times which ware de-plovad by the 35-year-old Trinity classics don in 1889. 1 1 1

Nonthumberland tool in 1889. Lducation. This stognation. In. Frozor's thinklos was clearly linked with his isolation both from the real world of luman relationships and from the stimulus of controversy. R. A. Dow-stop of the stimulus of controversy. R. A. Dow-to any stop stop the stimulus of controversy. R. A. Dow-stop of stop the stimulus of controversy. R. A. Dow-stop of stop the stimulus of controversy. R. A. Dow-the stop of the stimulus of controversy. R. A. Dow-stop of stop the stimulus of controversy. R. A. Dow-the stop of the stimulus of controversy. R. A. Dow-stop of stop the stimulus of the stop of the



But of course there are other kinds of influence heades that which stears from per-sonal connects and arrive schularly debate. There are looks where the general content seeps into the cultural tradition and acquires a self-perpetuating antonomy which is almost independent of the nutbor's original creation. independent of the number's original creation. The widely diffused influence of Fruzer's The Golden Brock has here of this general kind. The great majority of these who to-day refer in some ablique fashing to Fruzer's hleus about divine kingship, prioritive tahon, sr the universality of fertility magic, are quite maware of the source of their argu-ment or of the real anture of Frazer's book. If they have consulted Frazer in the original at all it will almost certainly have been through the one volume abrid-ed ed'sion of The Golden Broch first issued in 1922. The version which is now heing reissued.

The version which is now heing reissned, which originally appeared in 12 rolumes he-tween 1911 and 1915, with a supplement in tween 1911 and 1915, with a supplement in 1936, is a work of reference only, unorthously unreliable in the detail that it describes.⁴ From the start it has sarved scoreely any useful function except as a wide-ranging hibliography of offscellaneous ethnspraphic source material, though I will solut that, as a schoolboy reared in a less permissive sec, I found the profent Latin footastes about temple prostitution and strange sexual prac-tices very exciting reading I There is a real puzzle here. In a diffuse

There is a real puzzle here. In s diffuse sense, Frazer's influence was underlably im-mense, but for the unset part the professional experta wero scornfol.

By contrast the inexpert were fascinated. But why shoold this shy, uninsplied, obses-sional collector of strango costons achieve international fame when other men of fac greater originality and insight, working in closely similar fields remained virtually unknown outside the specialized world af accidence? acodeore 7

acoucole ? Perhaos It was just a motter of prestige. After oil, Frazer was a classics don nud a Fellow of Trinity. If such a man suid that avoge customs deserved to be taken sari-ously, then there roust be something in it. And then there roust be something in it find it quite assisseding but it the beginning of the century Frazer's synthetic oighteenli-century endences were greatly adopiced. Couechtory chdences were greatly admired. Con-temporory commentstors repestedly emplis-size this point. The mannerisms were s con-scionaly davaloped part of the exercise.

scionaly gavalohod hart of the exercise. Frazer was proud of his erudition hat the acholarly fashion of his timo made it socio psrfectly proper that he should rewrite his source poterials in such a way as to accit the consibilities, of his readers? Writing in the 1938 he justified the divergence batween his own published works and the sources which they turport to summarize by the following a summent: al'gument :

" (the original notes) ors written for the most pari in s plain, staight forward way, the authors contenting thenselves with describing in simple isnguege things which they lood seen, or had heard reported by compatent native in-formatics. Few, II any, possessed that magic charm of style which by firing the imagination of toaching the intert, can nlove cruiter what we fondly call innortality upon a work of literatore." (Authologia Anthroponlogica, 1938,1 But foshious change. Modern scholors feal that elagsnea must be subordinated to fact. These, who new consult Frazer's bibliography find it essential to go bock to the originol source to find put what it raolly said rather than toke Frazer's decorated yersion at its frace who are concerned with the

bow the isolation came about. Ir was not that Frazer's onthropologicol colleaguas end auc- Frazer's onthropologicol colleaguas end auc- Search roacted in hostility agoinst his views; J' it was simply that a tho iheoriss; and inter- sets, of authropologiats daveloped over the yeare Frazer renteined hilssfully unoware of whit was going on. By the time the loter The Goiden Bough, by Sir Jaines Frazer, 13 yols. Meemilian, f100. ISBN 0 333 012828

of magic and religion throughout the world. Haw gratifying to be assured, by an sothurity of such rast erudition, than such esimplex matters are ensy to understand. And how convenient to have the whole universe of man's magination condensed to such a tiny etorite acorn.

sterile acom. The Collen Brach, which was two volumes in 18%, had reached 12 volumes by 1915. All of Frazer's major anthropological works had the same kind of expansionist history. The kernol of each multi-volume treatisa is ts be found in a celetively briof essny pro-duced early sn under the tutelage of Robert-sun-Soith. The subsequent process of expan-sion by accretion was simply a consequence of the comparative method which Fruzer ndnpted.

of the comparative method which Fruzer adapted. In each case Frazer starts out with a "theury" which is asserted as universally applicable to all primitive sociatios, and then the evidence is introduced by way of illustra-tists. Since Frozer disciplined himself to work far chout eight hours a dey at guiling ethningraphic sources, and since this routine continued for uver 50 yeors, the accomulotum of dats was altogether formidable. Bot the categories into which Frazer aorted his material hardly vacied of all Revision wos simply a matter of adding bolk. For example, Totemism and Exogony

material hardly vaded of all. Revision was simply a matter of adding bolk. For example, Totentism and Exogony (1910), in four volumes, with a supple-mentary volume in 1937, storted out es an article designed for the Encyclopuedia Britownich which was pohliched separately in 1887. Of the Astronovich was pohliched separately in 1887. Of the Astronovich was pohliched separately in 1887. Of the Astronovich was pohliched separately in this treatment." This oorly Smith-Frozer essay survives as port of the four velline wark. It is now the only part of thot bolky treatiso which seems to hovo ony unerli et all. Folklore in the Ohl Tostament (1918), in three volumes, started es o short essay in Folklore in the Ohl Tostament (1918), in three volumos, started es o short essay in 1907 but was clearly inspired by Rubertson-Smith's far more important works. Kiuship and Marriage in Early Arabia (1985) and 'Lastness' on the Religion of the Semilas. (1889). In much the some way, two orticles shout the primitiva cuncept of the snul, published in 1885 md written under Smith's influence, later developed into a three voluose work The Belief in Innortality and the Worship of the Dead (1913-1922) which we a revomped

the Dead (1913-1922) which woa revom

The Benef in Inflorming and the worship of the Dead (1913-1922) which was revomped inter as anothor three volume work under o differest little The Fear of the Dead in Primi-live Religion (1933-1936).
Indeed SH Frazer's nithropological work' loada straight back to Robertson-Smith. Frazer would not have dealed this. He con-sidered bimself to be a disciple of Robertson-Smith, describing him as the greatest man he had ever known. The first adition of The Golden Bough is dedicated to his mester. When Smith arrived in Cambridge ho stratck op e close bond of friendship with the ybulger men and commissioned Frazer to write a number of articlas for the Encyclo-paodia Britanica. These articles for the Encyclo-paodia Britanica. Smith elided in 1894 end thereafter eli originality disoppears' from Frozer's wrigings.
Other commentators have mede therpoint that Frazer does. not. coly seem to have understood the Innovations in anthropological thaking which Robertaon-Smith introduced.

The professional contempt to which I have The professional estimates to which I have already referred was not always made expli-cit. Indeed, there have been a voriety of dis-thiguished anthropologists who have claimed, in retraspect, that they were led to take an interest in anthropology through the excite-ment generated by a first reading of *The Colden Bough*.

My num teacher, Bronisisw Mslinswski, was among disas with affirmed this kind of dis-tunt disciploship and he even persuaded Frazer to write a foreword to his book Argo-mutis of the Western Pocific (1922). Bot while it may have been useful for Malinswaki it that there we have the thereast while it onay have been useful for Malinswaki at that thus in be thought to have some con-noxium with the world-fanious giant of andurstulogy, the actual scholady influence of Frazer muon Malinnwski seems to me tu have been precisely all, though perhons in Argonauts we may trace echoes of Frazerlun as well as of Couradian English.

The pricess of allenation whereby avage ond civilized were ireated as if they were beings inhebiding different placets allowed che renlities of homen suffering in the colon-bil dependencias to be converted into o son-ciriontolized fairy-tele:

"Savago rucos, who only o hondred years ago still led hair oid life ucknown und undisturbed lo the dopth of the virelo forests or to remnio labands of the sea are now being rudely hustled out of relistence or tronsformed into o pathetic hurlesque of their conquerors . . . an atmos-phero of romance wild gather found them like the line hoze witch softens into tender beauty tile harabor featores of a tustant landscape". . (Toternism and Exogany, 1910. Vol 1, p xy).

List we end will another quotation. The article on Frazer in the Dictionary of Netionel Biography is by the late E. O. Inmust Manself e close iniliatur of Frazer, aquelly ponderous oud repetitivu, but lacking his touch of style. Jumes' purpose was cloorly to write a onlogy, but even ha found it difficult to pin hnwn just what. Hed been Frozer's substantiol achievemour. Here is the quotation:

"Frazer was not o controversialist, nor brillant conversionalist, nor an inspiring lec-urer, but conversionalist, nor an inspiring lec-turer, but conversionalist has a writer of flue prose based upon the best eighteenth century inodes which hilberto, has never been sur-plassed."

It seems to mo that one might say very inucli-the same of Mr Tom Keating's litherto uc-surpossel imitations of models provided by the works of Mr Semual Pointer,

The nuthor is provest of Kings College, Gambridge:

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science).

General

Lecturers : J. L. Adar ment studies); Dr J) sriences); N. W. Ardo information and ex-ing); J. R. Field et al. C. Report polymers L. R. Alustor (equal) they; Dr R. J. Stateout Neuronatic

Visibing professors is a I. D. Nussey and Dril:

Institute of Biology

Prafressor R. R. Porte, en

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Chairs

Wiltiont Morsicali, a noted autimrily on children's growth and development, has been appointed to the chain n human blology in the department of human sciences al Loughborough University.

Dr Michael Jones-Lee, at present reader in cconsmics at Yusk Universily, has been appointed to the second chair of economics at Newcostle Uni- Mr M. Zander, reader in law at the with effect from Augost I, Londun School of Economics, has been appointed to its choir of law. versity

Mr Peter Hills, et present assistant director of research in the institute of Transport Stodles, Leeds University, has been appointed to the chair of transport engineering and to the direc-urship of the Transport Operations Re-search Group at Newcastle University post at Imperial College, London. transport engineering and to the direc-

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Complex Analysis : Introduction (M844): prog 1; Wolding Sunso of Boclety : Doing Diask | Ditti: prog 3); The Man-Mado World : A Foundation Course : Difficult Decisions : 1100.

Saturday February 26

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from May 1, 1977, or such later as is agreed.

Dr F. M. Fowler, render in German at Oneen Mary College, London, has heen appointed to the chair of German longuage and literature at Queen Mary College from Ocuber 1, 1977. Dr G. N. Stanton, letturer in New

festament studies of Kung's College London, has been appahned to the chair of New Testament studies at King's College from Databer 1, 1977.

The tille of professor of theracle medi-cine has been conferred on Dr T. J. H. Clark in respect of his past at Gay's itosphiat Medical School, London.

The mie of professor of engineering

Forthcoming events

" the Interpreting Marx as a publical theorist " is a public lecture in govern-ment to be given by Professor Sheldon S. Wollo, professor of politics at the University of Princeton, on March J in 5 pm at the Lambon School of Eco-nomics, floughton Street, Lambon WC2A 2AE. . . .

"Telling the truth about education ", n public forum in the "Press meets the public "series, will be held in March 9 at Portland Hall, School of March 9 of Portland frait, School of Communication, Pulytechnic of Central London, 18-22 Riding thouse Street. Speakers: Br Rindes hoysett, Juan Lesjer, Terry Bills, ex-headmaster of William Tymiade Junior School, and John Tzbickt, education correspondent of The Dolly Tetegraph.

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Manday February 28

Appointments

Universities

Edlohoreh

Senton let uners : Mis E. M. Junes (htild life and health); A. D. H. Wylle (pathology). Lecturers : A. G. Donaldson (constitutional and adulto) strative law); Miss J. D. Boore thursing studies (adult); D. Boore thursing studies (j. Hope (contant design and regional planning); D. W. Else (reter-inary pathology), Tentuerary betwees (A. W. M. C. Owen (clinical surgery), C. M. Phylin (Cathology).

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oblained from the Director of the Nuffleld Founda-tion, Nuffield Lodge, Regent's Park, Londoo NW1 4RS.

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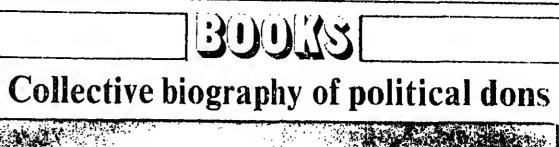
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The Lights of Liberalism : Univer-sity Liberals and the Challenge of Democracy 1860-86 by Christopher Harvie Allen Lane, £9,50 1SUN 0 7139 11718 5

In 1830 a few Cambridge undergraduates, including Carlyle's hero John Sterling and the future Loud abent of Buchessist, & Tennysan, were deep in a plot to honorary fellowshy, a invade Spain and overthrow its have been cleated using illiberol regime. Do the other hand, president: Pratessa Gi at Oxford in Trinby term 1831 the presidents: Professor in inpermos W. E. Gladstone, a few Breeze and Br C.A. Stern manufies before he taok a double construct the W. St. Tennysan, were deep in a plot to negany Warden, Goldsmiths' Colleget, Anthony E. Flith Deader: Dr J. J. White Harman, King's Folleget, Tilles of reader: 16 M. Cofoy Direck and taim, Universite Folleget, W. T. Itwos (chemistry, Reducid Col-lyget: tr P. Petrohelli tuniskology, King's Folleget. **Connected and to the direction of the Transport Operations Research Group at Newcastle Undressly Connected and british Association for equivalence of the Second Drills a Imperial College, London. The Floancial Activities of the City of Hereits, students, staynen und from the Lingh, and the Second Drills a solect bibliography by School, lists publications describing
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The Old Mariality Society, Oxford 1860. From left to right [standing); J. Puyne (Megdolen), J. W. Hoole [Queen's), T. H. Green (Balliol), Jomes Bryce [Trinity], Acness Mackoy (University), (seated) G. R. Luke (Bolliol), A. C. Swinburne [Balliol), John Nicol (Bolliol), A. V. Dicey [Balliol), T. E. Holland (Magdalen).

ward current or two of the harbour Impact on Oxford and Cambridge of too much far the academics. As

passage, front the manuscripts in Balliol, about a free trole hero;

While Bright was ut Oxford, T.' H. Greon called to worship: "I was lat his compony for a couple of hours. To my great enjoyment, I con best describe him as a greot brick. 'He is simple... os a boy, full af fun, with a picesant thay of conversation and lots of good stories. Ho does not ecom to mind whot he says to act rapidly ond decisively, enybody, but through he is suf-ficicotly brusque, his good through in politics, the ono poli-humour aaves him from seeming pride limsolf.

And the server ship is a cross-man is and the first pocket boroughs; as Cross-man is and the labour not the ford did, in the Labour not the labor is like is a untor standing of the source out on the server helese succeeds in theme. He begins by o genufloxion of two towords currently foshionable is in the statist doctrines; which he soon is with the is the statist doctrines; which he soon is with is molecting in the source of single people, found himself ongged to fellow. First is subjects with his multifarious subjects; is the statist doctrines; which he soon is with is in the statist doctrines; which he soon is with is in the statist doctrines; which he soon is with the statist doctrines; which he soon is subjects which he deels is subjects were let alone with his multifarious subjects; is the statist doctrines; which he deels is the policical public of the bolics. The fill the which he deels is the soon is with the statist doctrines; which he deels is the policical public of the present is a tron-the fore or creating here the babies is remarkebly free from prejudica is remarkebly free trom prejudica is remarkebly free trom prejudica is remarkebly free from prejudica is the foreaster with statist basis; essectical, is foreaster with the statist one of claimberlein in the statist and once cleer of an awk-

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cemoval ni impediments in individ-uni effort end [for] the offorts of Individuals working in voluntary col-laboration ": hence the zeal with which they almost all took part in the compaign against university tests, thet led to some odd negola-tions with Gladstone, by now Prime Minister.

Most of them came uway from the fray with their opinion of Glad-stone little enhanced, yet Gladstone lattle ennance, yet Grad-stone throughout scens to have beeu the arbiter of the situction. In his Studies in Contemporary Biography James Bryce observed bis chiefe tendency to absorb engaments obout an dasue while apparently remaining immovoble, then, once his mind was made up, to act rapidly ond declaively.

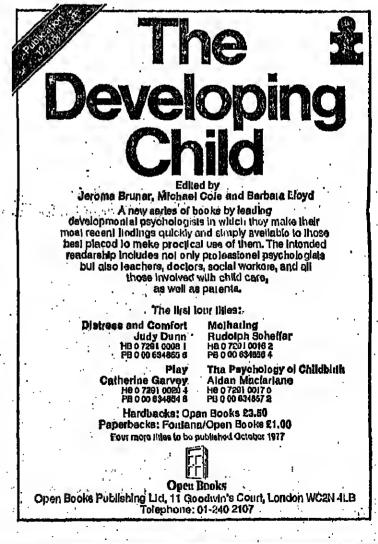
choseed from the pasements and haved from the balcomes (Charden dons and the Piccabilly balconjes on the whole felt as one. Morley, Brece, or hestilating Treedvan and a few others stick to then Grand thin Man, but the old association scened to herak up for old triendships dae bard

With the disjolution of the many the 1960s, academics had for table table bound it difficult to relate to a changing polytical relate to a changing polynear scare throw m at least gave a new "list" for most of them. But h left no opening to the future. And enough of the matrix — relationships, concerns, long-nage— remained to the their tstad-station colleagues to them, and to the old addition. to the old polities.

They were obtained strongly anti-specialist. Yet they related faith in humanity. As they related faith in humanity. As they eput is of "the young Usford Socialists, Univisian or Pagan" in a letter to Divey as hure as Ognober 1917; "They acut to think human names perfectible, just as the met of 1789 did Pochapet is reall drive methods that it was It is well that manking should never shake uself free from this illusion."

shake itself free from this illusion." thre other aspect al this bank requires a closing word. Through it is 343 pages long, it contains only 2.34 pages of octual text. There are nine appendices, mainly lists of names (a tenth has been sup-pressed, as has a hibling aphy), and over 50 pages of notes, as well as an excellent index: clearly enough this is a doctoral thesis—the author book his doctoral thesis—the author book his doctoral thesis—the author book his doctoral thesis. The failed of the failed the Open University as a lecturer in history in 1969. Thu thesis dues not seen to have been thesis dues not seen to have been extensively rewritten for a wider nutification This is becoming a con-num-is it a landable—practice ?

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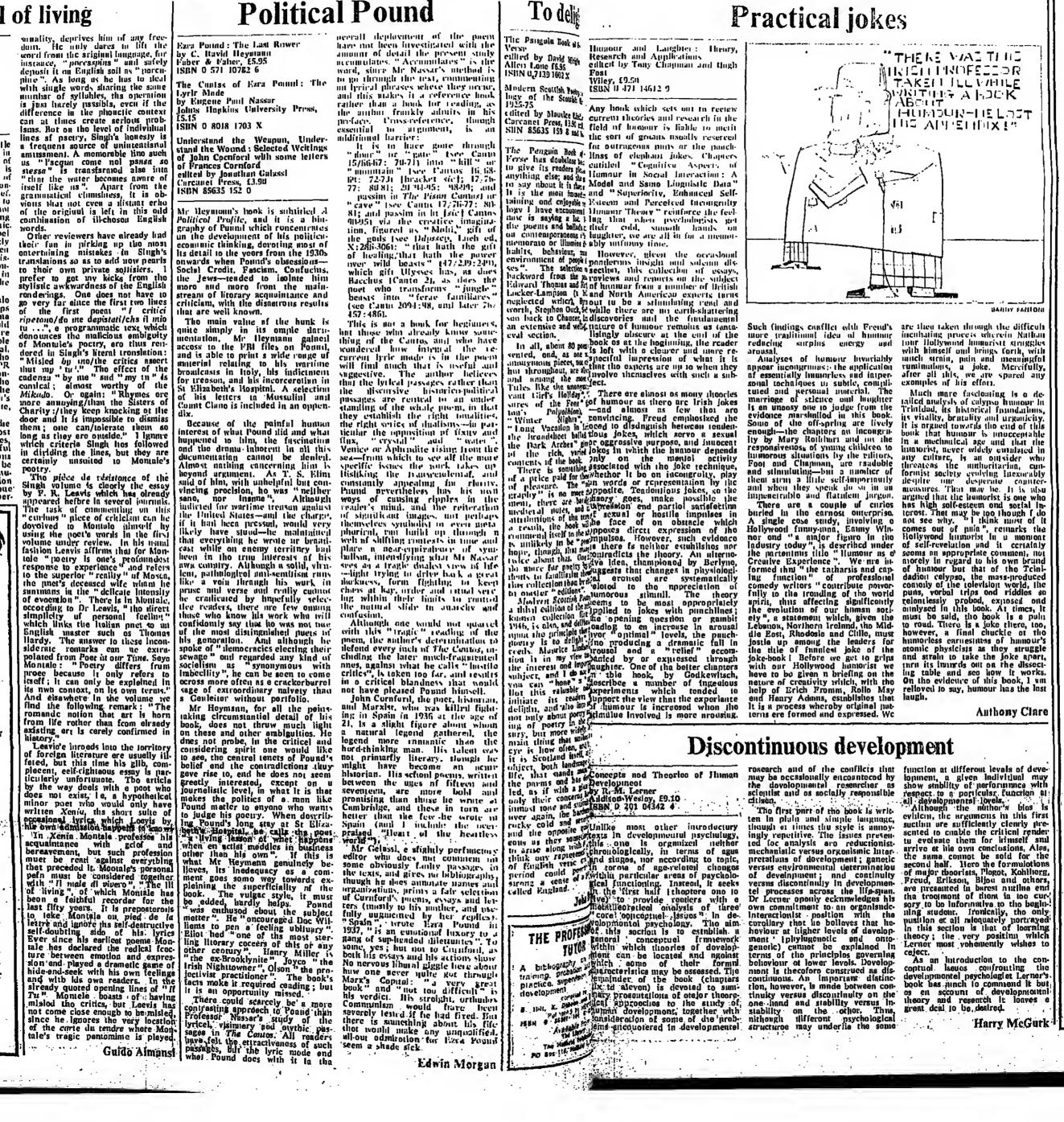
BOOKS

neerall deplayment of the prem have not been investigated with the amount of detail the present study accouncilates. "Accountates" is the word, since Mr Nassar's method is to so through the test, commenting to so through the test, commenting base neuror. Modern Scottlsh Prep; to go through the text, commenting in priral phrases where they occur, and this makes it a reference hook rather than a hook for reading, as the author frankly admits in his preface. Cross-reference, through essential to argument, is an addited by flauke by Carcanet Press, 138 million field of bosonor is liable to meth SUN 85635 159 8 million of groans usually reserved

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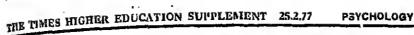
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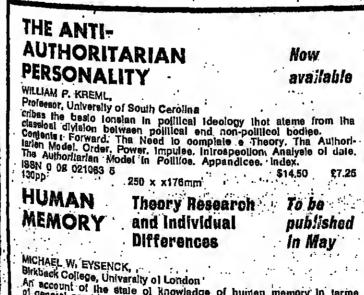
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Unit P of the Essential Psycholagy Ualt P of the Essential Psychology series is concerned with "tha corr-sept of chenge, oot only in people but sise in psychology". Its eight books are diverse. In topic, oricnta-tion and quality. Most are on ap-plied psychology, with the field proved by the consignment elscpurowed by the consignment elsc-where of occupational and educa-tional psychology. Most are criti-cal of at lenst some espects of psychological arthodoxy. This is potrayed to varying degrees of monochrome exsggeration es pur-taylog e mechaolatic model of man, toplining itself to isboretory con-tivences or starchily professionel applied soutings, and veloky pro-tasing it own value-ocurrelity. using ilt own value-oeutrolity triling lit own value-ocutrelity. Four of the books are relatively orthodox. Rosenerv Shekespeare's Psychology of Handicap la campa-teni and workmoolike although somewhat uncritical (for example, in reviewing believiour modifica-tion, it nestly illustrates the inter-ation between handleops and the sorist contexts of their barers. Mary Tuck's How do we Choses? cleanuity challonnas the scientific validity of much theoreti-tis and practical research in con-simur, psychology, and advocates

sumer psychology, and advocates Fishbeln's expectancy-volua model effectively while giving amough in-formation on other approaches to bere as a factorial provides to serve as an introductory text. Terence Lee's Psychology and the Environment succeeds in

the Environment succeeds in the Environment succeeds in demonstrating that psychology hos a tennibution that psychology hos a tennibution that anake to the Infer-diciplinary, inevitably samewhot pictenesi, study all the effects an bian of the built covironment. Although cridcel of academicism, tes tennains firmly empirical. In Clinical Psychology : Theory and



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The humon aspace of experimental ne number aspace al experimental psychology—parsunality, motivation and individual differences—are the subjects af these four looks. As part of the introductory series, As part of the introductory series, Essential Psychology, they are la-tended both far interested formen and new students. Tais means they should be clear and up to date; they should not distart through over-sharplification and at the end readers should be acquainted with the nala findings in the field and matstanding problems, Such elegent simplicity is difficult in ochiave. Usaully it comes hest from those who have been lang lanacress in the autoport, mastars of the Hell,

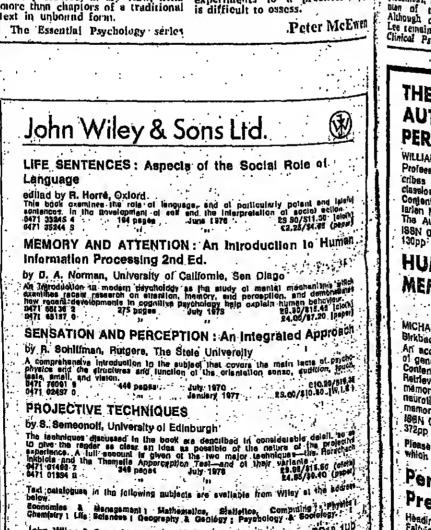
the aubject, mastars of the field, as is recugnized in Scottish univer-sities where the intraductory course is given by the professor [although this does not necessarily excepted the science.

as is recugnized in Scottish univer-istics where the interaductory contribution it mokes in nli aspects of as is recugnized in Scottish univer-provide the salution. First as regerds clarity, these boaks are reasonably successful, They are casy in understand and explain any jargon which thay finit it necessary to use. However, this thus been done sontetimes by avoid-ting complexity, expecially in the boaks use find brief bia-graphies of Catteli and Eysenck. I furvover, nothing is snid in this boak ubout the differences between their systems—which is the intel-tis discussed by Peck and Whitlow. This exampla rulsas ϕ critical is discussed by Peck and Whitlow. icctual interest—olthaugh this totic, is discussed hy Peck and Whitlow. Titls example rules of critical is discussed hy Peck and Whitlow. Titls example rules of critical is or mixture of ndequocy, excellence in such belof texts all the information purvoyed should be volevant. Although not oll four book alght overcome mony of the point) much of the lufaratulation sticks well to the point) much of the lufaratulation is simply padding and, whet is worse, pretentious and omplisite padding. For example, in The Person and omplisite padding. For example, in The Person medic and technology at a specific fine and place (sic) of Miletris on the west coest of Asia Miaar in the sixth century nc^w. Is this really essential informations to psychology 7 if it is, the discipline is daomad.
Some uf the nrguments presented

In the discipline is daomad. Some of the preumonts presected in these books will leave the reader. Iltrice the where, Fore example, rafer-ences to Colin Wilson (simply nut psychology in my view), Kirby finds, this concept of the outsider methal, while Radiord concludes that the ausider is longaly o rooman-tic illuston. Some of the informa-tion is server of the outsider we use informed that the Infusib-Intelligence Seein uses Rosel, Scal-ing but no exploration is given of this term. In a back intended for (layneen and beginners this is inlaymen and beginners this is la-oxplicable.

Finally, we must consider the duality at the prase. The books by Radford and Kirhy show every sign of hosty writing. Thus per-sonality is a "snrt of halabce..." sonality is o "snit if haubce..." md the theary of humours emorged as "o sart of generally needford theory ..." Thorn are phrases to walch it is differit to ortach moaning: "He [Frend] propasad that moats] life-haboviour if you lika-was unconscions". Who does "behaviour if you like" maan? First year students at university would fail far that:

would fell far that: From all this it is obvious thot these hooks fall to meet the strin-gent critcrie which I auggested eorlier, although the best of them, Motivation by Evons, does seem to give a suconct account of the met-teri. Ther these bonks should go into schools os examples of the discipline must put off both humani-ties and science teachers from recommanding the subject to pupils. I do not wish to be considered o latidator, lemporis acti, but those excellant introductions by Knight end Kuight, ond Zangwill were in-telligent, Uterete and informed, and presented psychology as a propor-subjact far university adaction.



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Psychology is a complex discipline, purt a natural science, purt sacial science, but alsa u profession and an art. Despite the causiderable contribution it mokes in nil aspects

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of whileh Peter Herriat is general editor, improves greatly an this ad demonstratas same of the posibilities itias which chuld be axplaited if this can be done economically. Each tople is allocatasi abant 130 pages compared with around 25 in a wider used earrent rext. The first don baoks deal with what has been ha ditionally labelled "experiment psycholagy", an nrea difficult a traat in a way canvinging to studen withing the usual page limits, it is a pacessary port of any introduction but the students who generally et-pact psychology to deal with people it appears starllo and "occount". In such a series, it is introduction which a reader will be antime which a reader will argue should have been included. I cannot this of any introductory text which don not include a chapter an sensor processas and sensary psychology. These are touched upan in Essent Psychology but nowinar uested Psychology b small print and the cramped are However much annotation io bely moy be disapproved af, it is a se-ful practica in study and a pipe back ought to allow for it. The provide of the transferred by paucity of illustrativo material ton pares unfavourably with dat of the usani texthonk. The set costs thou f7.00 and, far the intending pixto-logist, another dozen boaks at 800 will be nacded. David Legge's Introduction tan intendictor tellow

David Legge's Phiroduction rati Introductory, tries in answer fully the questions students ask and dow so wall. Blundell's Physioingical Pa-cholagy I found lenst source for As a basis, tills needs source toos ledge of the structure of the source o few not very halpful diagram. Walker on Learning is high readoble ond should almula student interest but at times i locufficiently systematic la

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Radical change

Therapy, Dongal Markay is almost conventionally hastila to psychiatry and the medical model. While this serves his generally well-executed purpose of develuping the psychn-social opproach it dues lead to cnipablu noglect af brain mechan-lsnts, hereditery factors and the various, uspontronle draws the by Bohanna Turner C3 Growing up in Society by Tony Baolh C4 Culture's Influence on Beboviour units, nereditory inclored and the by Robert Serpell lutter nro dismissed ns among the C5 in and Out af School "suppressive rechniques of organic psychiatry".

The remaining faur buoks are more "radical" in approach. Michael Bender's *Community* Micheel Beuder's Community Psychology challenges the profes-sionel orthodoxy af applied psychology, and conveys, largely vie interviews with various workers, e chootic although flevonrful mpression of a developing field. Fullar treemnent of theory and research would havo lifted the discussion from its usively grag-ntotic levol. John Shotter, in Images of Mun in Psychological Research, offers an effectivo sophis-ticsted, sumectines howy.gains how with be and the five books in the development section of Essantial Psychology nenages to avaid both plifalls. discussion from its insively pring-niotic levol. John Shotter, in Images of Mun in Psychological Resaurch, offers nn effectivo sophis-ticsted, sumeriates heovy-going, but scholarly and serious philosaphicol attack upon urthodax psycholugy es based upan an inappropriate, notural-sclence approach to human ustare. Despite flows (for example, in exaggersting the imitations of

The unit's severast critic of psy-chology is Nick Heather, His Radical Perspactives in Psychalogy pours "redical acorn" (sic) in ell direc-"redical acorn" (sic) in ell direc-tions. The abusiva end histrionic iona is set by an impressionistic etteck upon o parodied "positivistic psychology". Poppar is convaniently ignored and tho stoge thereby set for "radical" positrings orragantly devoid of self-criticism. The book's philosophical protendance are best tona is set by an impressionistic ettack upon o parodied "positivistic psychology". Poppar is convaniently ignored and the stoge thereby set for "radiced" positivings orragantly devoid af self-criticism. The book's philosaphileal pretensione are st best crudely realized.

The content, virtues and vices of The content, virtues and vices of many books in the unit ore uptly reflected in the introductory volume, Pay Fronscilla's Need to Change? Often informative (although over-inpping with other books, especially Mackey's), it offers philosophical arguments ogainst the mechanistic view of mou. As elsewhered in the unit, the volue of the critiqua is diminished by a lock of precision and genetration, and a willinguess to be seduced into ovarsimplifica-tion: Greater undesty ond reflection would have enhanced the criticul would have enhanced the criticul books of this unit.

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plifalls. Robert Serpoll's discussion of the difficulties of cross-culturol studies is both lively and critical. He makes it clear that we will not find simpla or definite answers to questions about the relotion between culturol nsture. Despite flows (for example, in exaggersting the ilmitations of conventionel psychology), the bonk is valueblo, although unsuited to the beginning etudents for whom Essentiel Psychology is intendad, es it does not cover philosophical psychology es it might appeer in e curriculum.

daveloping countrica. Historical change is the focus of Harry McGurk's first chapter, on the concept of development; it is an interesting and promising start to the boak. But the account of the argent and important questions there are to osk about development

argent and important questions there are in osk about development. The section on mathodology may wall help students to raid, tho re-search literature more criticolly, huit it will hurdly oxcite them. The book is, however, lucidly written. In contrest Juhanne Turner's in-troduction to Pluget seems quite unnecessorily opaque. The writing is extremely, clumsy, and has a real flavour af 1066 and All Thet: "The bature of these processes has caused considerable contraversy which hes resulted in the various theories of cognitive development." Her treat-ment of cognisive development has some very noticeable gaps: although a large section of the lunk is de-voted to lunguage equisition, there is ba dascription of the lunk is de-tween preverbal unit vertial cammu-nication, on omissian which greatly limits the alscussion of the relation betwean language and thought.

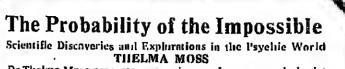
between language and thought. Tony Booth's bauk is e potck-wark of social history and outbra-pological oncedates, chosen to illustrate its vlow of the relation between persuadity and cultural illustrate itls vlow of the reintion between persunolity, and culturol end itisturical voriation. Students moy well find it ensy and enjoyahle to read—some af the parches oro highly culoared—but tharo is little attempt to discuss how the "agents of suchilization" he describes might be affecting the child's develop-ment, and it is unlikely that the hand, and superficivel generaliza-tions mode about socialization will help the reader to think about the pracesses involved. In and Out of School is almed at rather a different ondicuco. It is

ather a different

rather a different ondicuco. It is o short prectical hook for teachars. Thero is o brief and uot very lliuminoting occnunt uf psycho-logical idees about development, and then u struightforword und unpretentiaua illicussion of proc-tical lastics in teoching. The scribus gaus in the triples covered by the sories cuncern social devalopment. There is very littlu discussion of emotional development, intellectual development, of the intellectual development, of the intellectual development, of the intellectual of cuntum-cathur. The editorial preface unges ins to "enjoy psycholingy", but there cathur. The calinital preface urges us to "enjoy payciningy", but there is too much drohness in the aeries, the nucli of whet the title Essential Psychology conjures up, and tou Httle integinative presentation of the fundemental issues that have a be thought about for a real under-standing of development.

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UNIVERSITY OF CAPE TOWN SENIOR LECTURER OR LECTURER IN THE DEPARTMENT OF LAND - SURVEYING

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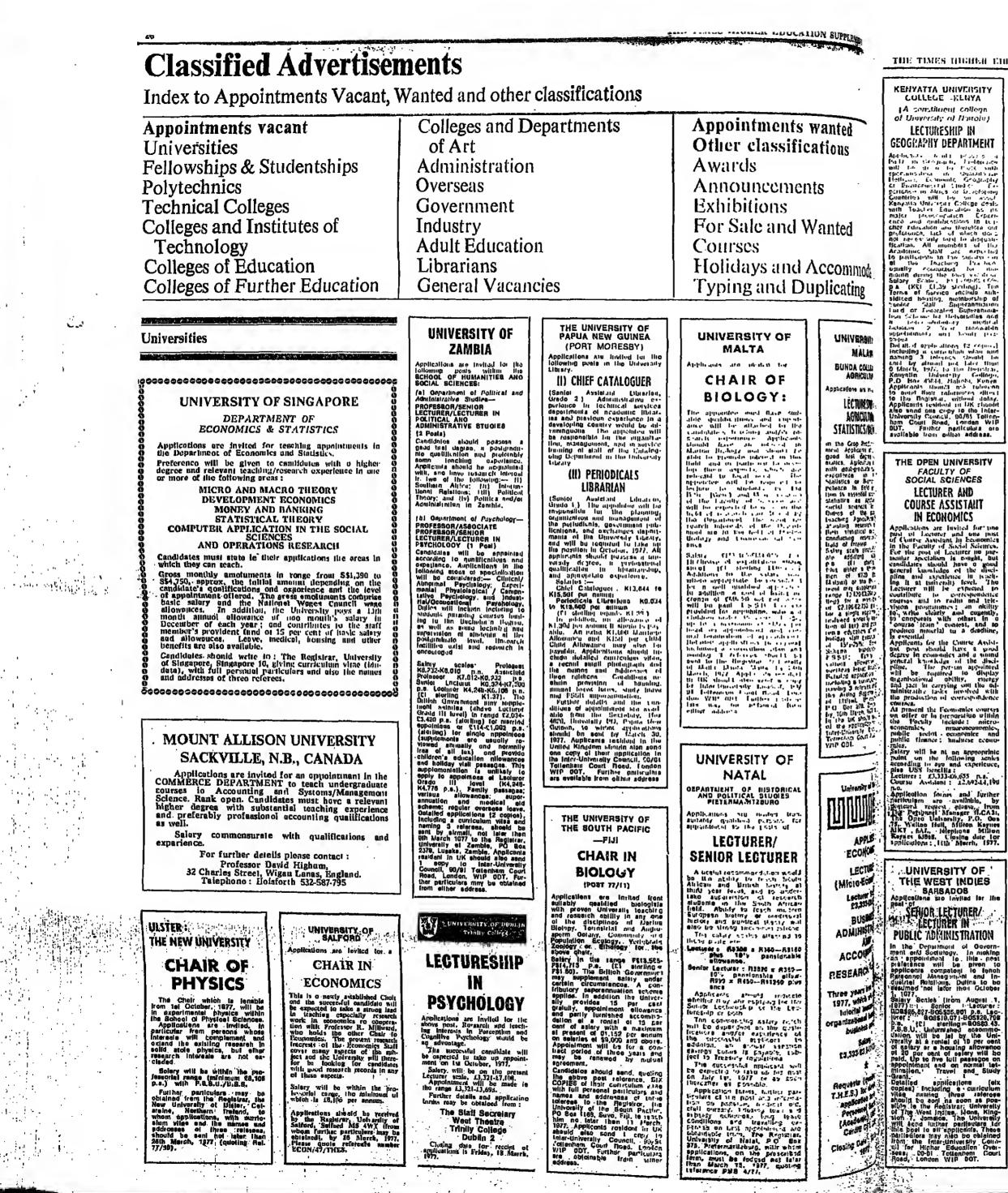
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FACULTY OF SOCIAL SCIENCES LECTURER AND COURSE ASSISTANT IN ECONOMICS

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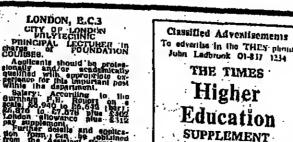
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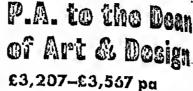
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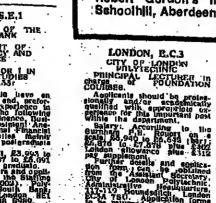
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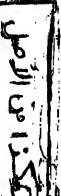
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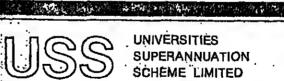


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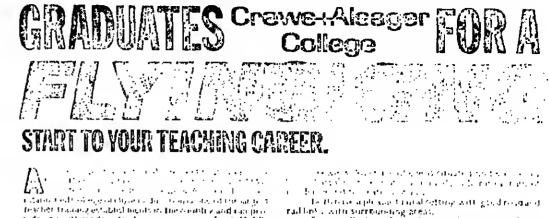
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Totrona College of Advanced Education is a multi-disciplinery College of live schools including the South Australian School of Att. The College has recently moved to a new campus where a building for the Depertment of Design is currently under construction and is due for com-plation in mid 1977. Applications are invited for the position of : PRINCIPAL LECTURER IN DESIGN

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SOUTH AUSTRALIAN SCHOOL OF ART

Torrens College of Advanced Education

The successful applicant will be responsible to the Principal of the School of All for the development and co-ordinetion of Design courses in the fields of Product Design, Furniture Design, Grephic Design and Ceramice. Courses are currently being conducted at both UG2 Diploma and UG3 pert-time According Diplome lovels. The School is Considering e proposal to ollar e 8.A. Decign course at UG1 level, within which the above course and olliers will be included.

The enccessful applicont should hold appropriate acedemic queltications and hove a beckground of experi-ence and mede outstanding contributions are a precising designer, pretetably in Industrial Design. Providus experience in Tettiary Design training is essential.

The selety offered will be at Level 1 or Level 2 above thet of Senior Lecturer, either \$23,047 or \$24,009, depandent upon quelifications and experience.

The successful explicant will be appointed to commence dillies as soon es poeerble.

Applicational including the nomination of three relates, should be received by the Academic Sacruary, Torrone College of Advancus Education, Holbrocks Rued, Underdelo, South Australia, by 30 April 1977.

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ART AND ARCHITE TURE IN BRITAIN (15-1 : Judy). US\$275 inclusive of exclusions, Apply before 15 March in 1977 IO PARVO, c/o The Centrel Bureev, 43 Dotsol Street, London W1P 1FH. BRENT Lendon Koraugh ut

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Further details and nimicu-tion torms from John Director of Education. Reducation Detail, P. U. Roy No. 1. Constaction House. 9 Park Lanc. Wom-bios. Middleses HAS TINC. Clasing data Int. optilication 110 March. 2077.

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LONDON, W.C.J.

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The University of Benin like the other universities in Nigeria, is a Federal Government university. It is a young and fest developing university and provides ell the opportunities and rawards of ploneering effort. There ara currently just under 2,000 students enrollsd

(1) DEPARTMENT OF EDUCATION

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e) Positiona Vacani : rofessor/Associate Professor or Reader ; Senior t.ecturer/Lecturera ; Assistant Lecturera. (b) Fields of Specialization Raquired ; Educational Measuroment and Evaluation ; Physical and Health Education ; Research Methods and Psychometry ; Speciel Methoda of Teaching any of the following subjecte : Chemistry, Physics, Mathemetics, French, and no Arta : Educational Psychology : Educational Communication and Technology ; Philosophy of Education ; Educational Administration and Planning.

(2) INSTITUTE OF EDUCATION

(e) Posilians Vacent : (e), Forsitians Vaccint; Associate Proteesor or Reader ; Senior Lecturer/Senior Research Fallow ; Lecturer I and II/Research Fellow ; Asalstent Lecturer / Aasielent eseerch Fellow.

(b) Fields of Specielization Required : Teeching Education (Primery and Secondary) ; Educetionel Administration ; Educational Planning and latislics : Curriculum Studies.

(3) DEPARTMENT OF SOCIAL STUDIES (1) Geography

(a) Poellione Vacani : Benior Lecturers ; Lecturer 1/11 end Assisteni Lecturer. (b) Fields of Specielization Required : Agriculturel Land Use and Rursi Development ;

Climetology; Physical Geography : Ceriography and Aerial Pholo Interpretation; Geomorphology; Biogeogrephy; and Quanilietive Mathode.

(e) Positione Vecent : Professor/Associete Professor on Reader ; Senior

(b) Fields of Specialization Raquired : Public Administration ; Political Theory ; Comparative Political Analysis ; Methodology or International

(IK) Sociology

(o) Pasitione Vacani :

Toleseor/Associele Profassor or Reeder ; Leclurer. [b] Fields of Specielization Required : Sociologios) Theory ; Sociel Anthropology ; Theory and Methods in Sociology : and Physical Anthropology.

(4) DEPARTMENT OF ECONOMICS AND BUSINESS STUDIES

(a) Positions Vacani Prolessor/Associate Prolessor or Reader ; Senior

Laciurere. (b) Fields of Bpectefizeiton Raquirad :

Eaonomic Development ; Applied Economice ; internetionel Economics ; Industriel and Lebour Economics ; Econometrica,

(5) DEPARTMENT OF HISTORY AND CREATIVE ARTS (I) History

(e) Positions Vacent :

Professor/Associete Professor or Resder ; Senior Professor/ Associete Professor or Hesder; Senior Lecturere/Lecturers, (b) Fields of Specialization Required: Nigerian or Africen History; History of International Relations; History of the Middle East; History of the

Fer. Eaal and Asle

ii) Creative Arts (a): Positions Vecant Prolessor/Asecolate Professor or Reeder : Benior Lecturer/Senior Resserch Fellow : Lecturer/Research

stant Laoturer/Aasialani Research Fellow. (b) Fields of Specielization Raquired 1 ainling ; Sculpture ; Ceremios ; Grephic Art ; Orama,

(6) DEPARTMENT OF MODERN LANGUAGES

- (I) English a) Positiona Vacani :
- ofessor; Senior Lecturere; Lecturers; Assistant

b) Fields of Specielizellon Raquired :

- Englieh Languada ; Poetry ; Drematic Lilerature ; Novel. (II) French
- a) Positiona Vacent
- (a) Positiona vacent; Professor/Aseociste Professor or Reeder; Senior Lecturer; Lecturer. (b) Fletts of Specialization Regulard : French Language; Flench Linguistics, written in French; French Linguistics,

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in the Schools/Faculties of Medic Dentislry, Pharmacy, Engineering, Science, Education, and Aris and Social Strences. For the 1977/78 session, staft ve ; ; ; es exist viriusly in all the departments of me university as indicated below :

(Iii) Linguistics and African Languages (e) Poellone Vecant : roleesor/Associete Proteesor or Reoder ; Sentor Lecturer : Lecturer. (b) Fields of Specialization Required : Theoretical Lingulatice ; Social Lingulatics ; Demonstrated Interest in any Nigerian Languiagee.

(7) CENTRE FOR SOCIAL, CULTURAL AND ENVIRONMENTAL STUDIES

(a) Positions Vecant : Research Prolessor ; Senior Research Fellows/Research Fellows. (b) Fielde of Specielization Requirad :

Industriel and Labour Economics ; Land or Agriculturel Economics ; Businese Methods ; Social Relationa ; Anthropology : Political Science or Adminietration : Mueic ; Civil Engineering with spacialization in Urban Plenning and Sanitation : Heelth Science ; Biological Sciences ; end Crestive Arts.

(8) DEPARTMENT OF BIOCHEMISTRY

(e) Posilions Vsceni:

oleseor/Aesociale Professor or Reeder.

(b) Fields of Specialization Required : Slophysice ; Blochemicel Texcology ; Protein Chemistry ; Plent Cerbohydrate; Chemistry; Steroid/Lipid Blochemietry ; Nutritionel Blochemistry.

(9) DEPARTMENT OF BIOLOGICAL

SCIENCES

(a) Poelilons Vscant : Projestor/Aseccleie Projassor or Reeder; Senior ... Lecimere/Lecimers; Assistant Lecimere/Assistant

Research Fellows. (b) Fields of Specialization Required : Microbiology ; Eniomology ; Flatterics/Hydrobiology ; Biostetistics : Food and Industriel Microbiology ; Forest Ecology ; Genetics ; Vetebrate and Livertebrote Zoology ; Wildlife Menegement.

(10) DEPARTMENT OF CHEMISTRY (4) Positions Vscani :

(a) Positions vscani : Proleesor ; Senior Lecturer/Lecturer. (b) Fields of Specialization Required : For Proleesorship : Industrial Chemistry with special interset in Applied Mineral Chemistry, Proceesing and Utilization, For Senior Lecturer : Inorganic Chemistry (specializing in Co-ordination Chemistry), For Lecturers : Organio/Inorganio Chemistry.

(11) DEPARTMENT OF GEOLOGY

(e) Positions Vacant : Professor/Associete Professor or Reeder ; Senior Professor/Aesociale Professor or Reeder; Senior Leolurera; Leolurere I/II. (b) Fielde ol Spacialization Raquired; Mineralogy; Crystellography; Peirology; Precemblen Geology; Structurel Geology; Geochronology; Geochemielry; Scimoniology; Globel Geology; Geomorphology; Hydrogeology; Engineering Geology.

(12) DEPARTMENT OF PHYSICS

(e) Positions Vecant : Profassor/Accordate Profeesor or Reader : Senio Lecturer/Lecturere ; Assistani Lecturere. (h) Flaids of Specialization Required ; illurgy and Materials Science ; Applied Geophysics ; Medical/Bjophysics,

(13) DEPARTMENT OF MATHEMATICS a) Posifions Vacani : ARRAT/ As ocleta Prolessor or Reeder ; Senior

Leolurer ; Leolurere. (b) Flaids of Brectalization Required : All areas of Methametics.

(14) COMPUTER'SCIENCE

Positions Vationi : Professor/Director ; Associats Professor or Reader ; Principal Systems Anelysi; Principal Bysteme Programmer; Senior Leoturer/Lecturer in Stellatica.

(15) DEPARTMENT OF CIVIL

ENGINEERING

- (e) Positiona Vacant : Prolesaor/Associele Professor or Reader ; Benior : Lecturer ; Lecturer. (b) Fields of Bpscialization Required :
- Siruolural Engineering ; Surveying & Hydreuitc Engineering ; and Environmental Heelin Engineering.
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(16) DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

(a) Positione Vncont : Protoesor/Assochule Protossor nr Readm ; Semar Lecturor ; Lucturers ; Assistant Loctum

(b) Floide of Specialization Regulard : Electrical Power-Mechinos ; Electrical Power-Systems ; Physical Electronics.

(17) DEPARTMENT OF MECHANICAL ENGINEERING

(a) Positions Vecent : Professora/Aesoclate Professor or Render ; Senior Lecturers; Lecturer/AasieInnt Lecturer. (b) Fields of Specielization Required : Thermodynamics, Mechanics of Fluids; Strength of Meteriale; Engineering Drawing; Apolled Mechanics; Vibrations; Control; Engineering Manufacture.

(18) DEPARTMENT OF PRODUCTION TECHNOLOGY AND INDUSTRIAL ENGINEERING

(a) Poelijons Vecani ; Professor/Associate Professor or Readm : Senior Lecturer/Lecturor ; Aselstant Lociments. (b) Fields al Specialization Required : Production Tochnology/Engineering : Industrial Engineering : Mochanical Engineering.

(19) DEPARTMENT OF CHEMICAL AND PETROLEUM ENGINEERING (a) Poellions Vacant :

Prolessor/Associoty Prolassor or Bender : Sociel Lociurer/Locinzer.

(b) Fields of Specializetion Required : Reservoir Englinearing ; Reservoir Similation ; Oil and Gns Production ; Field Processing and Transport of Oil sild Gas.

QUALIFICATIONS REQUIRED OF APPLICANTS

The following qualifications not required in respect of the verinus cutogounn of junsts :

(a) Prolessor/Associete Professor/Render, Lityh nendemic multifications in the tribuunt links, pretarably up to Ph.D. Soverni ynars of tuachung, research or professional experience in a University or Comparative mellicition complemented by netrepute actuality publications. Ability to initiate num develop research projects and to experise postgraduut remarch programme. Bone administrative expansion.

(b) Senior Leclutor/Senior Roeaarch Follow, Snund acadomic qualificationo, profetably with a Ph.D. Not least thun live years of tenoling, rasonrots ar aquivalent professionel experience in enoning, research or application professionel experience in a University or comparative Institution: Ability to initiate and develop research projecte, aupported by avidence of scholarly publications. Experience in directing academic group discussion will be an experience be en edveniana.

(c) Lecturar I and II/Research Fellow, Sound acadeinio or equivelent protectional qualifications with preferebly. s higher degree. Level of appointment will depaid on teaching or research experience in a University or comparable institution. Evidance of scholarly protections will ba en adventaga.

(d) Assistent Lecturer/Assistant Rasserch Fallow. Mestar'a degree with demonstruble ability or potential for teaching and research. Candidatea with good honouis degree not below Second Closs Honours (Uppsr Division) or its equivalent with adequate teaching or research experience, will be considered.

 (e) Proissor/Oirector, Computer Science. High ecedemic qualitionations, preferably with e Ph.D., m Computer Science, Physice, Mathematics or Engineering, plus extensive experience in computer opplications, with edequate edministrotive and computer management experience. A thorough greap of systems and progrentming techniques. Several yearo of teaching, research or prolassional experience in a University nr comparable institution complementad by adequate schotally publicationa

(1) Principel Bysiams Anelysi. Sound ecadomic floellons, prelerably with a higher deared. In computer ecienco/Informatics with either e good degree In e related lietd or en equivalent professional quellication. Not lase then five years professional Superience in Systems Anelysis and design plus additional experience in Computar applications (9) Principal Bysisma Programmer. Sound ecedemic quelifications, preferably a higher degree, in computer eclence/informatics with eliber a good dogree in e releted field or an equivalent professional quolitication. Not less than the second content of the second and the Not less then live years' protessionof experience in the Implementation of large date processing systema in el leest two of the fottowing areae : Operating Systeme: Applications to Data Processing: Stellatical Applications: Scientific Applications: Information Management System. Data Base Design, Control and Management, plus additional four years programming experience.

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University of Srl Lanke, Peredeniya Campus. Degree of coulvolent in Production Engineering or related subject. Minimum of 6 years' experience in University teaching/research/industry. Postgraduate and professional qualifications desirable. Salary; (5,210-17,054.

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UNIVERSITY OF BENIN, NIGERIA Continued from preceding pege

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Grede Level 16 : N11,258 N12,420 Professor/Olrector Associata Professor or Grada Level 14 : N8,888-N9,828 Reeder Sentor Lecturar Sentor Research Fellow Principel Systeme

Grade Level 13: N7,784-N8,724

Principal Systems Programmer Leciurer or Research Grede Level 11: N8,444-N6,984 Fellow Grede I Lecturar or Roseerch Fellow Grede II Grade Level 10 : N5,480-N8,432 Assisiant Laciuror Grode Level 09 : N4,368-N5,340

Aesistant Research (Note: N1 = £0.8377 (Billish Sterling)

N1 = US \$1.5848 (subject to changes in exchange rates) (b) Other Conditions

The eppointment of Professor is to retiring ege which le normelly 60 years; lor other poste below Professor, eppointment is normelly on probeilon which mey be 'confirmed after two or three years of sallefactory service.

conifraied after two or three years of sallefactory service.
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(c) Mathed of Application Condidetes are required to submit three typewritten copies of their applications giving the following

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Posi for which Applicant wishes to be considered; Marilal Statue, number of children (with ages); Acedemic and Professionel Background—with qualificetione end experience;

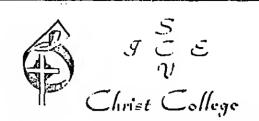
Working experience; Present Employment, Status end,

Salary: Salary: Rassarch and Publications (two copies of not more than eix of them to be supplied if available); Non Academic Intereste/Extre:Curricular activities; Peesport Number (II any) with Dete and Piece of lacue; Names and addresses of three referees; Pessport Photographs should be included with the

catione (Note: In order to expedite processing of epplications, cendidates are edviced to request their nemed referees o write relevences on them under confidential cover directly to the Registrar.)

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STATE COLLEGE OF VICTORIA INSTITUTE OF CATHOLIC EDUCATION

Currist Cottege is an expanding tertiary institution providing at present for the training of Primary Teachers through a three-year pre-service Diploma Course along with Conversion Programmes: ond Graduote Diploma studies for experienced teachars. It is planned to commence a Bachelor of Education degree course in 1978. Christ College is an expanding tertiary institution

Applications are invited for the position of

Deputy Director

Sulary : \$A24,971 per annuns

Under the Director to assist in the general administration of the Cullege; to cunvene nul participate in committees, and to undertaka relevant duties as determined by the Director. Participation in the teach-ing programme is expected. Duties will include developing, supervis-ing and coordinating the projected secondary programme. Qualifications Approved university studies with

Approved intersity stuffes with post-graduote qualifications profer-ably including a doctorate. Applicants should have proven administrative talent, preferably in a tertiory institution. Qualities of integrity, intellectual ebility ond & Experience understonding of the Christion understonding of the Christion usture of the Chliege, and willing-uess to wurk within this frome-work,

Either finited term ar permanent tenure subject to review after three Conditions

Full details of terms and conditions of employment and information about the Cullege, the Institute of L'utholic Education end the Stato College of Viciorin systam may be obtented on explication to the Director, Dr. B. Bisckall, et tho nddress shown below.

Autress snown below. Applications should include a curriculum vise, present sudress and addresses of three referees and the date when evaluable to commence they, and be forwarded to: Applications

The Director,

SCV-ICE, Christ College,

17 Cesticbor Rood, Ookicigh, Victoria, Ansirelia 3166 Applications to close : 26th Murch, 1977.

AMERICAN INSTITUTE FOR FOREIGN STUDY (A|FS)

TWO ADMINISTRATIVE/TEACHING POSITIONS (1) BALZSURG, AUSTRIA. AIFS Year-Abroed Progremme in easociation with the Internationale Ferienkuree für Deuteche Sprache und Germaniatik (University of Selzburg.)

RESIDENT DEAN

Sterling dete: no later than September 1, 1977, August i prelerebie.

1 preferebie. Candidates must spaak tiuchi. Garmen, haye significant international, and German outsulei experience, be a liskible, and canable uni-versity-level, taachar with high solademic qualitions and have, and meking practicel experience for counselling studenta and meking practicel experience to counselling studenta and meking practicel experience at high actool level in Satzburg and contraction home-lay programmes at high actool sevel in Satzburg and contaction with the Dometacher-Institut. The Resident Germany in association with the Dometacher-Institut. The Resident Germany will be responsible for all appears of audem wellare end ecodemie programmes.

Beirry: \$12,000 per ennum, plus frings benalits that include penalos end lits insurance schemes, an enufel bonus, and some irrevet opportunbiles. (2) PERUGIA, ITALY, AIFS Yeer-Abroad Programme In

Association with the Italian University, for Foreigners and the Pietro Vannuoci Art Academy.

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Starting dele; no later than September 1, 1977. Starting dele: no later than September 1, 1977. Candidetes must apeak livent listlen, be a practient artist or art historian with good academic credentiale and be a listble, ex-perienced university-level teacher, and have itse appropriate ed-ministrative experiance in cournelling students and making practical arrangementa. The autoestatil candidate will size be involved in summar programmes at high school and dollage level in Porugia, and he or she will be responsible for all especial de locant wedent and he or she will be responsible for all especial de locant wedent and he or she will be responsible for all especial de locant wedent and he or she will be responsible for all especial de locant wedent super \$75,000 per ennum, plue Iringe baratits, that include-gelery: \$75,000 per ennum, plue Iringe baratits, that includethe ecdemic programmes. Here 573,000 per ensum, plue Iringe benetits, that include peetsee and the insurance echemes, an enjust borws and some isvel opportunities. pplications for both pasts should be sent NOW, 19

Mr. Kennsth Matthswe Director of Programmes AMERICAN INSTITUTE FOR FOREIGN STUDY 37 Quesns Gats; London SW7 5HR

Burwood State College Principal

The Council of the Burwood State Guiloge fruits applications from porsons with appropriate qualifications and experience for the position of Principal. The College, which is situated in the easiern suburos of Methourne, has 1700 students enrolled is diptome. degree and graduate diploma courses designed to prepare teachers in Primary and Secondary schools and to prepare teachers of the severely hendicapped is a number of areas. Within those courses the College preperes spocialist teachors in heelth physical education and recreation, all and crait, music and in n number of areas of severa handicap in which courses reega from carifficata to degree level. Approval of a

reage from certificate to degrée level. Approval of e course leading to the owerd of a Masters Degree for Teachars of the Deal is currently baing sought. The Principsi will borequired totesd avigorousie siluition which includes a School of Teacher Education, a School of General Studies and se Institute of Special Education with appropriate lectification. A meloi building program which will ceable the College to provide teaching accommodation for up to 3000 students has recently been completed. The inset of part of development for the College enviceges a linel student population of approximately 5000 with increasing amphales upon post-service courses for lenchars sed upon courses designed to meet community needs outside the lifet of feacher mael community nadds outside the lifeld of (cechai education. Burwood Slote College has a considerable

The appointee should have solvered ecademic distinction and be able to demonstrate administrative and executive ability of a high proder. The Council reserves the right to make an appointment

by invitation and would walcome suggestions concorning the names of suitable persons who may be seproached with respect to this appointment. Present celary is A\$33,454 por ennum and the position cerilos Cenefile commensuiste with its status and

carponalibility. Further information concerning the College and copies of the Terms and Conditions of Employmost are

evallable of request. Applications should contain a recent photograph and the semissiand addresses of three releases from whom

confidentiel enquities may be made.. Enquites incy ba eddiseed to Mr. Hugh Rogers, Cheirmen of the Council and eppiceitone merked "Contidentiel" enout be ladged with him at the College by 29 Aprill, 1977.

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overaces. For further details and en application form, please write or telephone quoting (C13) to Staff Recruitment Depan-ment, the Stillan Council, 65 Devies Street, London ment, the Stillan Council, 65 Devies Street, London W1Y 2.44, telephone. 01-499. 8011, ext., 3041

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